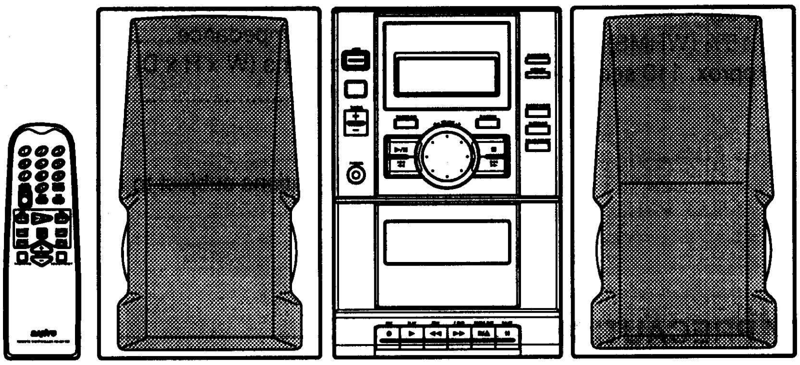
SANYO

FILE NO.

Service Manual

Micro Component System

DC-DA100 (UK) (XE)
DC-DA101 (XE)



Contents

PRODUCT CODE No.
129 556 00 (UK)
129 566 01 (DC-DA100/XE)
129 566 05 (DC-DA101/XE)

Specifications 1
Laser beam safety precaution 1
CD pick-up maintenance 2
CD player adjustments 2
Tape deck adjustments 3
Exploded view
  (Cabinet & Chassis) 4
  (Tape mechanism) 9
  (CD mechanism) 10
Parts list
  (Cabinet & Chassis) 5
  (Tape mechanism) 8
  (CD mechanism) 10
IC block diagram & description 11
FL display description 13
Schematic diagram
  (CD) 14
  (FRONT) 16
  (AMPLIFIER) 20
Wiring diagram
  (CD, FRONT, LED) 18
  (AMPLIFIER) 22
Wiring connection 24

REFERENCE No. SM5810019

SPECIFICATIONS

Tuner

Reception frequency	FM : 87.5 - 108.0 MHz MW : 522 - 1611 kHz LW : 144 - 288 kHz

CD player

Channels	2-channel stereo
Sampling frequency	44.1 kHz
Pick-up	Optical 3-beam semiconductor laser
Wow and Flutter	Below measurable limits

Cassette deck section

Track system	4-track, 2-channel stereo
Frequency response	80 Hz - 13.5 kHz (Normal tape)
Signal to noise ratio	45 dB
Wow and Flutter	0.15% (WRMS)
Fast forward / Rewind time	Approx. 110 sec. (C-60)

General

Output power	6 W x 2 (at 4 ohms, 10% distortion)
Inputs	VIDEO IN : 400 mV / 50k ohms
Outputs	SPEAKERS : 4 ohms PHONES : 8 - 32 ohms
Power requirements	AC 230 V, 50 Hz
Power consumption	30 W
Dimensions (W x H x D)	Approx. 160 x 250 x 213 mm
Weight	Approx. 2.8 kg

Speaker system

Type	Full range bass reflex
Drivers	10 cm cone type
Maximum power-handling capacity	12 Watts (peak)
Nominal impedance	4 ohms
Dimensions (W x H x D)	Approx. 160 x 250 x 222 mm
Weight	Approx. 1.9 kg (per speaker)

Specifications subject to change without notice.

LASER BEAM SAFETY PRECAUTION

- Pick-up that emits a laser beam is used in this CD player section.

CAUTION :
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE

LASER OUTPUT .... 0.6 mW Max. (CW)
WAVELENGTH .... 790 nm

CAUTION – INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.

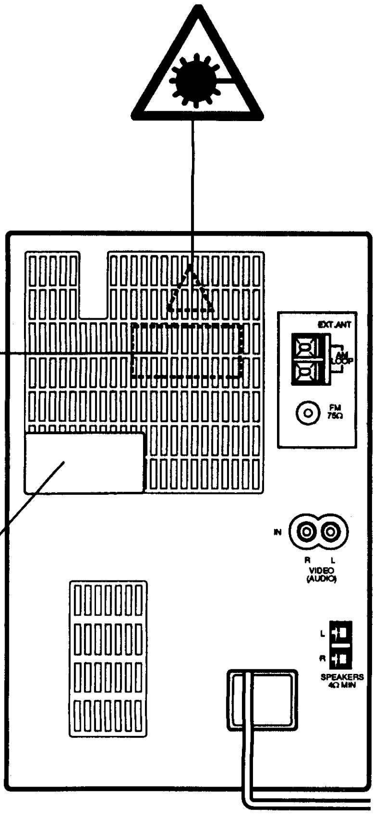
ADVARSEL – USYNLIG LASER STRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION, UNDGÅ UDSÆTTELSE FOR STRÅLING.

VARNING – OSYNLIG LASER STRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRR ÄR URKOPPLAD. STRÅLEN ÄR FARLIG.

VORSICHT – UNSICHTBARE LASERSTRAHLUNG TRITT AUS, WENN DECKEL GEÖFFNET UND WENN SICHERHEITSVERRIEGELUNG ÜBERBRÜCKT IST. NICHT, DEM STRAHL AUSSETZEN.

VARO – AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT



CD PICK-UP MAINTENANCE

About pick-up (Optical lens) Cleaning

Clean a lens with swab of the cotton which moistened it with alcohol, cleaning paper or cleaning disc appointed.

Specified cleaning disc : LC-1 (Part code : 645 026 1961 ..... manufactured by SANYO.)

Show a clean procedure in the following in reference by swab of cotton.

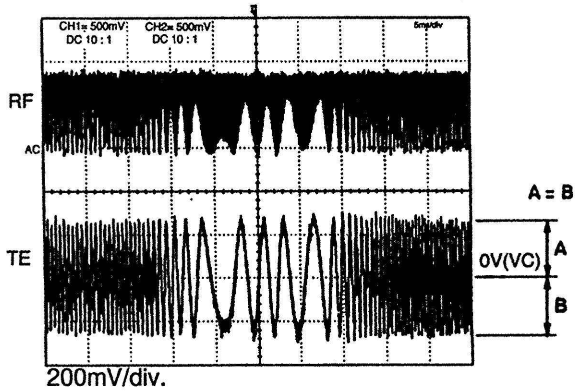
1. Cotton swab is wrapped with Cleaning paper.
2. Add the isopropyl alcohol.
3. Gently move the tip of cotton swab just like a draw a whirlpool from inside to outside on the surface of lens.

CD PLAYER ADJUSTMENTS

1. ADJUSTMENTS

(1) Confirm the tracking balance

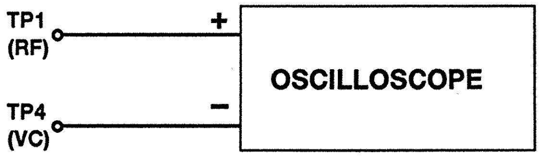
1. Connect an Oscilloscope to TP2 (TE) and TP4 (VC).
2. Turn on the POWER switch.
3. Set the test disc. (DISC 1)
4. Press "MEMORY" button and "BACK SKIP" button simultaneously. Within 1 second after pressing the "PLAY/PAUSE" button.
5. Confirm that the oscilloscope waveform is symmetrical on the top and bottom in relation to 0V (VC).

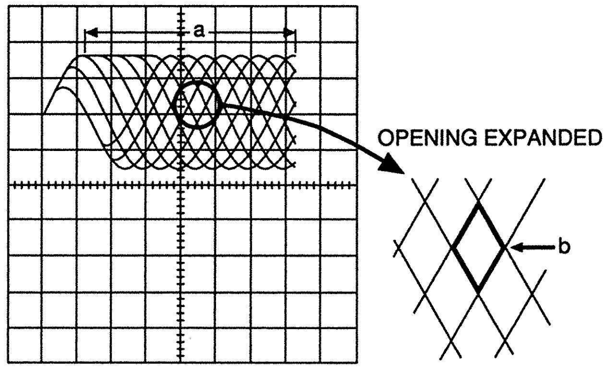


200mV/div.
5ms/div.

(2) Checking the "eye" pattern

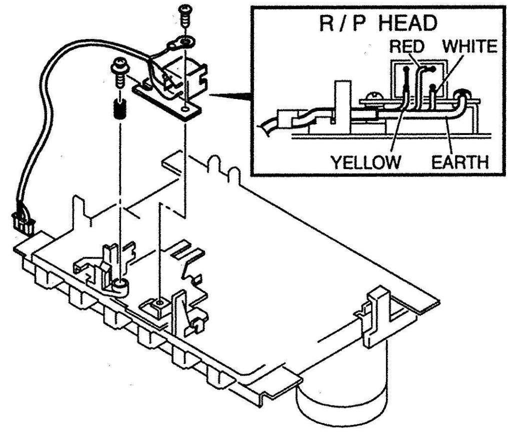
1. Switch "ON" the POWER.
2. Connect an oscilloscope to TP1 (RF) and TP4 (VC).
3. Load the test disc.
4. Press the PLAY button.
5. Check to be sure that the "eye" pattern is at the center of waveform and that the diamond shape is clearly defined.
6. Press the STOP button.
7. Turn off the POWER switch.





TAPE ADJUSTMENTS

a. Replacing the head



1. After replacement, demagnetize the heads by using a degausser.
2. Be sure to clean the heads before attempting to make any adjustments.
3. Be sure both channels (1 and 2) are the same level. (Using a dual-channels oscilloscope).
4. All wiring should be returned to the original position after work is completed.

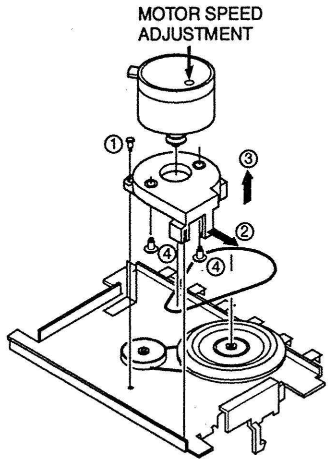
b. Adjusting head azimuth

1. Load a test tape (VTT-738, etc. :10kHz) for azimuth adjustment.
2. Press the PLAY button.
3. Use a cross-tip screwdriver to turn the screw for normal azimuth adjustment so that the left and right outputs are maximized at the same phase during normal playback.
4. Press the STOP button.

c. Adjusting motor speed

1. Insert the test tape (MTT-111 or etc. 3,000 Hz).
2. Press the PLAY button.
3. Use a flat-tip screwdriver to turn the SVR to adjust so that the frequency counter becomes 3,000 Hz.
4. Press the STOP button.

d. Replacing the motor

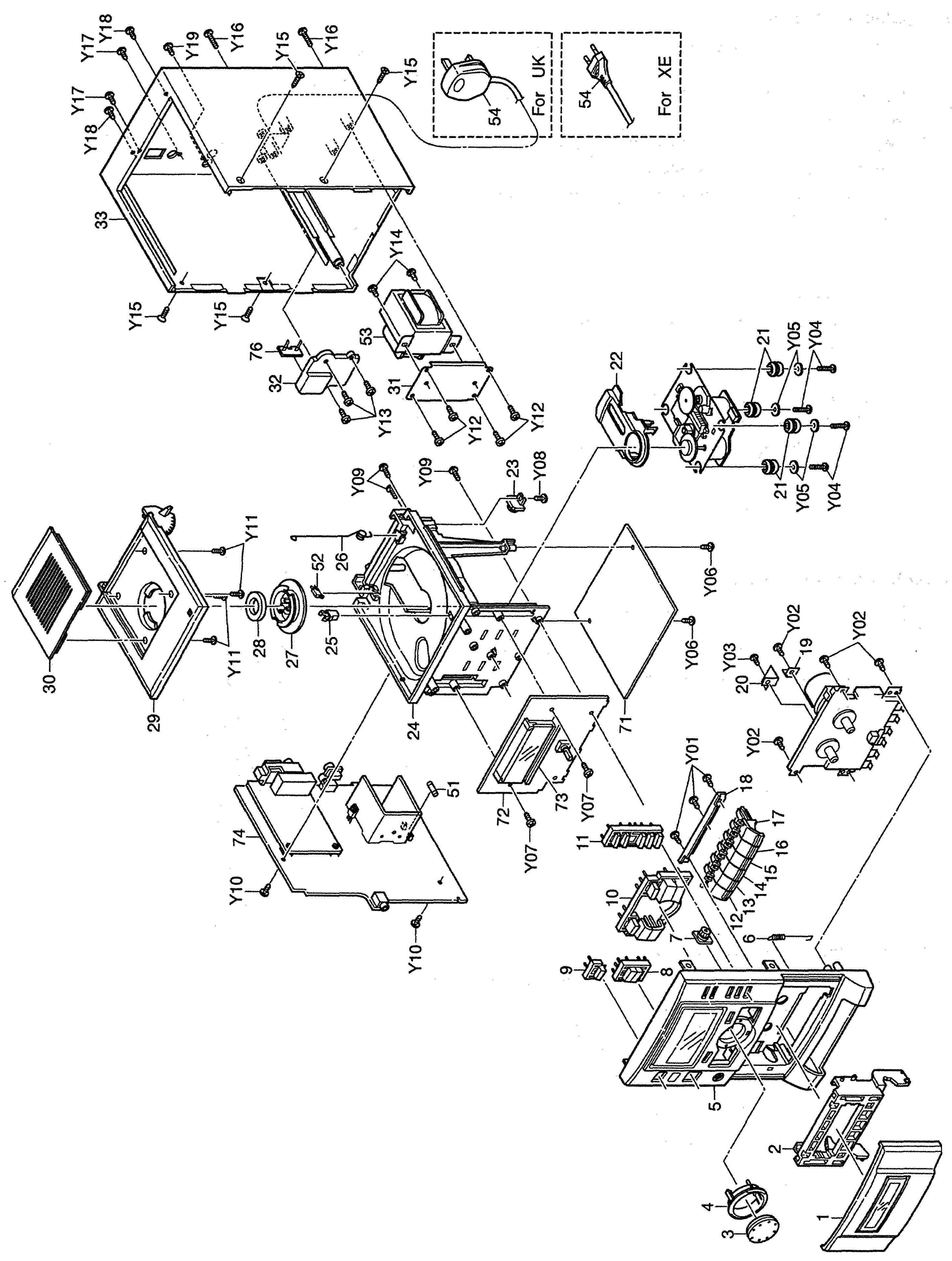


e. Checking the mechanism torques

- Clean the head, capstan and pinch roller before making any measurement.

Measureent	Take-up torque	Back tension	Tape tension
Cassette for measurement	PLAY : TW-2111A F.FWD/REW : TW-2231	PLAY : TW-2111A	Drive-power cassette TW-2412
PLAY	30 ~ 70gr.cm	1.0 ~ 6.0gr.cm	80 gr or more
F.FWD/REW	55 gr or more	-	-

EXPLODED VIEW (CABINET & CHASSIS)



PARTS LIST

PRODUCT SAFETY NOTICE

EACH PRECAUTION IN THIS MANUAL SHOULD BE FOLLOWED DURING SERVICING. COMPONENTS IDENTIFIED WITH THE IEC SYMBOL ⚠ IN THE PARTS LIST AND THE SCHEMATIC DIAGRAM DESIGNATED COMPONENTS IN WHICH SAFETY CAN BE OF SPECIAL SIGNIFICANCE. WHEN REPLACING A COMPONENT IDENTIFIED BY ⚠, USE ONLY THE REPLACEMENT PARTS DESIGNATED, OR PARTS WITH THE SAME RATINGS OF RESISTANCE, WATTAGE OR VOLTAGE THAT ARE DESIGNATED IN THE PARTS LIST IN THIS MANUAL. LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS MUST BE MADE TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE PRODUCT TO THE CUSTOMER.

CAUTION : Regular type resistors and capacitors are not listed. To know those values, refer to the schematic diagram.
Regular type resistors are less than 1/4 W carbon type and 0 ohm chip resistors.
Regular type capacitors are less than 50 V and less than 1000 μF type of Ceramic type and Electrical type.

PACKING & ACCESSORY

REF.NO.	PART NO.	DESCRIPTION
	614 303 0645	CARTON CASE (UK)
	614 303 2717	CARTON CASE (DA100/XE)
	614 306 1755	CARTON CASE (DA101/XE)
	614 303 0652	CUSHION,FRONT
	614 303 0669	CUSHION,REAR
	645 034 7962	POLY SHEET,870X480,SET (UK)
	645 035 1563	POLY SHEET,870X480,SET (XE)
	614 245 8587	NOTICE,AC CORD
	614 231 6832	LABEL,SAFETY,CLASS1
	614 303 0676	INSTRUCTION MANUAL (UK)
	614 303 2731	INSTRUCTION MANUAL (XE)
	614 305 3859	INSTRUCTION MANUAL,GREECE (XE)
	645 005 1227	ASSY,ANTENNA,LOOP
	614 229 4635	ANTENNA,FM
	645 034 7955	REMOTE CONTROL,RB-DA100
	645 036 6727	BATTERY COVER,REMOTE CONTROL
	614 304 5892	ASSY,BOX,SPEAKER,SX-DA100/UK(UK)
	614 304 5908	ASSY,BOX,SPEAKER,SX-DA100/XE (DA100/XE)
	614 306 1717	ASSY,BOX,SPEAKER,SX-DA101/XE (DA101/XE)

CABINET & CHASSIS

REF.NO.	PART NO.	DESCRIPTION
1	614 303 0195	ASSY,DOOR,DECK
2	614 302 5115	LID,CASSETTE
3	614 302 5092	KNOB,VR
4	614 302 9861	CAP,DECORATION
5	614 303 0232	ASSY,PANEL,FRONT
6	614 303 5794	SPRING,DOOR DECK
7	614 307 1396	ASSY,GEAR
8	614 302 9847	BUTTON,TUNER,2KEY
9	614 302 4859	BUTTON,POWER,1KEY
10	614 302 4927	BUTTON,PLAY,6KEY
11	614 302 4880	BUTTON,MEMORY,5KEY
12	614 302 5108	KNOB,DECK,MECHA,REC
13	614 302 9922	KNOB,DECK MECHA,PLAY
14	614 302 9939	KNOB,DECK MECHA,REW
15	614 302 9946	KNOB,DECK MECHA,FFED
16	614 302 9953	KNOB,DECK MECHA,STOP/EJECT
17	614 302 9960	KNOB,DECK MECHA,PAUSE
18	614 302 5177	MOUNTING,DECK,KNOB
19	614 304 5700	HOLDER,MAIN PWB
20	614 303 0003	SPRING,DECK REC
21	614 298 8886	SPACER,MECHA,DAMPING KSM-213
22	614 302 4965	COVER,PICK-UP
23	614 307 1396	ASSY,GEAR
24	614 302 5184	MOUNTING,PICK-UP
25	614 303 0263	LATCH,PUSH,CD DOOR LOCKING
26	614 303 0027	SPRING,DOOR CD
27	614 298 8879	PULLEY
28	614 303 0256	LATCH,MAGNET
29	614 302 4996	DOOR,CD
30	614 302 9878	DEC,DOOR CD
31	614 302 9915	HOLDER,POWER TRANS
32	614 302 9991	STOPPER,AC CORD
33	614 303 7279	ASSY,COVER,REAR (UK)
33	614 303 7286	ASSY,COVER,REAR(DA100/XE)
33	614 306 1731	ASSY,COVER,REAR(DA101/XE)

FIXING PARTS

REF.NO.	PART NO.	DESCRIPTION
Y01	411 021 3503	SCR S-TPG BIN 3X10, F-PANEL+MTG DECK KNOB
Y02	411 021 3503	SCR S-TPG BIN 3X10, F-PANEL+DECK MECHA
Y03	411 126 1404	SCR S-TPG BIN 2X4,SPRING DECK REC
Y04	411 021 1806	SCR S-TPG BIN 2.6X10,MTG PK-UP
Y05	411 092 0906	WASHER Z 2.6X10X0.5,MTG PK-UP
Y06	411 021 3503	SCR S-TPG BIN 3X10, MTGPK-UP+FRONT PWB/CD PWB
Y07	411 021 3503	SCR S-TPG BIN 3X10, MTGPK-UP+FRONT PWB/CD PWB
Y08	411 021 3503	SCR S-TPG BIN 3X10,MTG PK-UP+GEAR
Y09	411 021 4500	SCR S-TPG BIN 3X16, F-PANEL+MTG PK-UP
Y10	411 021 3503	SCR S-TPG BIN 3X10,MAIN PWB
Y11	411 021 2704	SCR S-TPG BIN 2.6X6,DOOR CD
Y12	411 021 3503	SCR S-TPG BIN 3X10, C-REAR+HOLDER P-TRANS
Y13	411 021 3503	SCR S-TPG BIN 3X10, C-REAR+STOPPER CORD
Y14	411 020 9902	SCR S-TPG BRZ+FLG 3X8, HOLDER P-TRANS
Y15	411 098 7701	SCR S-TPG FLT 3X10, C-REAR,L/R SIDE
Y16	411 021 4500	SCR S-TPG BIN 3X16,C-REAR
Y17	411 021 3404	SCR S-TPG BIN 3X10, C-REAR,ANT TERMINAL
Y18	411 021 3404	SCR S-TPG BIN 3X10,C-REAR
Y19	411 021 3404	SCR S-TPG BIN 3X10, C-REAR,RCA JACK

ELECTRICAL PARTS

REF.NO.	PART NO.	DESCRIPTION
51	⚠ 423 016 7908	FUSE 250V 2.5A
52	645 013 5224	SWITCH,LEVER 1P-1T
53	⚠ 645 036 3917	TRANS,POWER
54	⚠ 645 037 6269	CORD,POWER (UK)
54	⚠ 645 016 9939	CORD,POWER (XE)
CN381	⚠ 614 304 1481	ASSY,WIRE
CN383	⚠ 614 304 1511	ASSY,WIRE
CN681	⚠ 645 033 7413	FLEXIBLE FLAT CABLE
or	⚠ 645 036 3955	FLEXIBLE FLAT CABLE
CN683	⚠ 614 304 1498	ASSY,WIRE
CN691	⚠ 645 036 3948	FLEXIBLE FLAT CABLE
	⚠ 645 013 6498	CORE,FERRITE
	614 305 9653	SHIELD

PARTS LIST

CD P.W.BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION
71	⚠ 614 303 3011	ASSY,PWB,CD (Only Initial)
C604	403 058 2901	POLYESTER 0.015U J 50V
C607	403 058 2901	POLYESTER 0.015U J 50V
C612	403 059 8209	POLYESTER 0.22U K 50V
C614	403 060 8700	POLYESTER 0.033U K 50V
C615	403 059 8209	POLYESTER 0.22U K 50V
C620	403 058 9504	POLYESTER 0.018U J 50V
C630	403 056 7502	POLYESTER 1000P J 50V
C631	403 060 8700	POLYESTER 0.033U K 50V
CN682	614 304 1504	ASSY,WIRE
CP601	645 033 8168	SOCKET,FPC 16P
CP603	645 005 7366	PLUG,2P
D601	407 012 4406	DIODE 1SS133
D602	407 012 0309	DIODE 1N4003
D603	407 012 0309	DIODE 1N4003
D604	407 099 5204	ZENER DIODE MTZJ5.1B
D605	407 099 5204	ZENER DIODE MTZJ5.1B
D841	407 012 0309	DIODE 1N4003
IC601	409 378 8104	IC LA9240ML
IC602	409 435 2106	IC LC78622NE
IC603	409 372 9602	IC LA6541
L600	645 037 2858	CORE,PIPE
L601	645 001 5519	INDUCTOR,47U K
L602	645 001 5519	INDUCTOR,47U K
L603	645 037 2858	CORE,PIPE
Q600	405 141 3505	TR KTA1266-Y
Q601	405 141 3505	TR KTA1266-Y
Q604	405 138 6403	TR KTD2058Y
Q605	405 143 0007	TR KRC107M-A
or	405 000 3806	TR DTC114YS
X600	614 231 2667	RESONATOR

FRONT P.W.BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION
72	⚠ 614 303 3035	ASSY,PWB,FRONT (Only Initial)
AM001	614 304 5687	DEC,SHEET,LCD,LCD DIFFUSER
BRLCD	614 302 5085	HOLDER,LCD
CP101	645 012 5270	SOCKET,FPC 23P
D101	407 012 4406	DIODE 1SS133
D102	407 012 0804	DIODE 1N4148
D103	⚠ 407 099 5303	ZENER DIODE MTZJ5.6B
D104	407 099 6003	ZENER DIODE MTZJ9.1B
D114	407 012 0804	DIODE 1N4148
D115	407 012 4406	DIODE 1SS133
D116	407 012 0804	DIODE 1N4148
DMC10	407 203 9203	PHOTO DIODE SPS-442-1-E
IC101	410 345 9604	IC CXP83240A-110Q
IC102	409 451 2203	IC M24C02—MN6
L101	645 001 5441	INDUCTOR,2.2U K
LCD10	645 036 3931	LCD
Q101	405 143 0007	TR KRC107M-A
or	405 000 3806	TR DTC114YS
Q102	405 141 3307	TR KTC3198-GR
Q606	405 123 1208	TR DTC323TK
R101	401 038 6505	MT-GLAZE 47K JA 1/10W
R102	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R103	401 037 5608	MT-GLAZE 10K JA 1/10W
R104	401 037 5608	MT-GLAZE 10K JA 1/10W
R105	401 037 5608	MT-GLAZE 10K JA 1/10W
R106	401 037 5608	MT-GLAZE 10K JA 1/10W
R107	401 037 5608	MT-GLAZE 10K JA 1/10W
R108	401 037 5608	MT-GLAZE 10K JA 1/10W
R109	401 038 0800	MT-GLAZE 22K JA 1/10W
R110	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R111	401 038 7601	MT-GLAZE 560 JA 1/10W
R112	401 038 7601	MT-GLAZE 560 JA 1/10W
R113	401 038 7502	MT-GLAZE 56 JA 1/10W
R114	401 038 7502	MT-GLAZE 56 JA 1/10W
R115	401 038 7502	MT-GLAZE 56 JA 1/10W
R116	401 037 5202	MT-GLAZE 100 JA 1/10W
R117	401 038 6505	MT-GLAZE 47K JA 1/10W
R118	401 038 6505	MT-GLAZE 47K JA 1/10W
R119	401 037 5400	MT-GLAZE 1K JA 1/10W
R120	401 037 5202	MT-GLAZE 100 JA 1/10W
R121	401 037 5608	MT-GLAZE 10K JA 1/10W
R122	401 037 5608	MT-GLAZE 10K JA 1/10W
R123	401 037 5400	MT-GLAZE 1K JA 1/10W
R124	401 037 7909	MT-GLAZE 1.5K JA 1/10W
R125	401 037 9200	MT-GLAZE 1.8K JA 1/10W
R126	401 038 2101	MT-GLAZE 2.7K JA 1/10W
R127	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R128	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R129	401 037 5608	MT-GLAZE 10K JA 1/10W
R130	401 037 9309	MT-GLAZE 18K JA 1/10W
R131	401 037 5400	MT-GLAZE 1K JA 1/10W
R132	401 037 7909	MT-GLAZE 1.5K JA 1/10W
R133	401 037 9200	MT-GLAZE 1.8K JA 1/10W
R134	401 038 2101	MT-GLAZE 2.7K JA 1/10W
R135	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R136	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R137	401 037 5608	MT-GLAZE 10K JA 1/10W
R138	401 037 5608	MT-GLAZE 10K JA 1/10W
R139	401 037 5608	MT-GLAZE 10K JA 1/10W
R140	401 038 6505	MT-GLAZE 47K JA 1/10W
R141	401 038 6505	MT-GLAZE 47K JA 1/10W
R145	401 037 5608	MT-GLAZE 10K JA 1/10W
R146	401 037 5608	MT-GLAZE 10K JA 1/10W
R147	401 037 5608	MT-GLAZE 10K JA 1/10W
R667	401 037 5202	MT-GLAZE 100 JA 1/10W
R668	401 037 5608	MT-GLAZE 10K JA 1/10W
SP101	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
SW101	614 220 5471	SWITCH,TACT
SW102	614 220 5471	SWITCH,TACT
SW103	614 220 5471	SWITCH,TACT
SW104	614 220 5471	SWITCH,TACT
SW105	614 220 5471	SWITCH,TACT
SW106	614 220 5471	SWITCH,TACT
SW109	614 220 5471	SWITCH,TACT
SW110	614 220 5471	SWITCH,TACT
SW111	614 220 5471	SWITCH,TACT
SW112	614 220 5471	SWITCH,TACT
SW113	614 220 5471	SWITCH,TACT
SW114	614 220 5471	SWITCH,TACT
SW116	614 220 5471	SWITCH,TACT
SW117	614 220 5471	SWITCH,TACT
VOL10	645 033 3460	SWITCH,ROTARY(ENCODER)
X101	645 036 5102	OSC,CERAMIC 10.0MHZ
X102	645 032 1627	OSC,CRYSTAL 32.768KHZ

LED P.W.BAORD ASSY

REF.NO.	PART NO.	DESCRIPTION
73	⚠ 614 305 8144	ASSY,PWB,LED (Only Initial)
CN102	614 304 1474	ASSY,WIRE,FOR LED PWB
D105	408 037 4204	LED SLP-3118B-51HAB-T1
D106	408 037 4204	LED SLP-3118B-51HAB-T1
D107	408 037 4204	LED SLP-3118B-51HAB-T1
D108	408 037 4204	LED SLP-3118B-51HAB-T1
D109	408 037 4204	LED SLP-3118B-51HAB-T1
D110	408 037 4204	LED SLP-3118B-51HAB-T1
D111	408 037 4204	LED SLP-3118B-51HAB-T1
D112	408 037 4204	LED SLP-3118B-51HAB-T1
D113	408 037 4204	LED SLP-3118B-51HAB-T1

PARTS LIST

MAIN P.W.BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION
74	⚠ 614 303 3004	ASSY,PWB,MAIN (Only Inital)
C201	403 058 2901	POLYESTER 0.015U J 50V
C209	403 058 2901	POLYESTER 0.015U J 50V
C216	403 060 8601	POLYESTER 0.033U K 50V
C404	403 057 5507	POLYESTER 1200P J 50V
C405	403 058 9504	POLYESTER 0.018U J 50V
C406	403 060 8700	POLYESTER 0.033U K 50V
C416	403 060 8700	POLYESTER 0.033U K 50V
C421	403 057 3503	POLYESTER 0.1U K 50V
C422	403 057 5507	POLYESTER 1200P J 50V
C427	403 059 5505	POLYESTER 0.022U J 50V
C428	403 062 4700	POLYESTER 5600P J 50V
C429	403 059 3204	POLYESTER 2200P J 50V
C434	403 060 8700	POLYESTER 0.033U K 50V
C507	403 277 4106	ELECT 1000U M 25V
C508	403 277 4106	ELECT 1000U M 25V
C509	403 057 2407	POLYESTER 0.1U J 50V
C510	403 057 2407	POLYESTER 0.1U J 50V
C516	403 334 5503	ELECT 3300U M 35V
CP201	645 037 5460	SOCKET,FPC 23P
CP202	645 004 2904	PLUG,4P
CP203	645 005 8110	PLUG,4P
CP204	645 007 1447	PLUG,2P,FOR PT LEAD
CP205	645 006 1875	PLUG,2P
CP206	645 006 1875	PLUG,2P
D201	407 099 5204	ZENER DIODE MTZJ5.1B
D202	407 127 5008	DO NOT USE MTZJ2.2B
D401	407 012 0804	DIODE 1N4148
D501	407 099 5204	ZENER DIODE MTZJ5.1B
D502	407 012 0804	DIODE 1N4148
D504	407 099 5204	ZENER DIODE MTZJ5.1B
D505	407 012 0804	DIODE 1N4148
D508	407 012 0309	DIODE 1N4003
D509	407 012 0309	DIODE 1N4003
D510	407 012 0309	DIODE 1N4003
D511	407 012 0309	DIODE 1N4003
D512	407 012 0804	DIODE 1N4148
D513	407 099 6201	DO NOT USE MTZJ10C
D514	407 012 0804	DIODE 1N4148
D515	407 012 0804	DIODE 1N4148
E002	645 006 4760	HOLDER,FUSE
or	645 031 7903	HOLDER,FUSE
E004	645 006 4760	HOLDER,FUSE
or	645 031 7903	HOLDER,FUSE
H/P1	645 011 6384	JACK,PHONE D3.6
HS401	614 302 9892	HEAT SINK
HTU01	614 304 5694	HOLDER,TU PWB
HTU02	614 304 5694	HOLDER,TU PWB
IC201	409 445 4503	IC M62439SP
IC401	409 451 7406	IC AN7348K
IC501	409 451 2104	IC TDA7269
JACK2	614 276 6835	SOCKET
L102	645 001 5441	INDUCTOR,2.2U K
L103	645 001 5441	INDUCTOR,2.2U K
L401	645 006 1523	INDUCTOR,470U J
L402	645 006 1523	INDUCTOR,470U J
L403	645 006 1523	INDUCTOR,470U J
L404	645 037 2858	CORE,PIPE
L405	645 037 2858	CORE,PIPE
L406	645 037 2858	CORE,PIPE
L407	645 037 2858	CORE,PIPE
Q201	405 154 5909	TR KRC231M
Q202	405 154 5909	TR KRC231M
Q203	405 143 0007	TR KRC107M-A
or	405 000 3806	TR DTC114YS
Q204	405 151 5209	TR KRA107M
or	405 000 0904	TR DTA114YS
Q401	405 141 3307	TR KTC3198-GR
Q402	405 141 3307	TR KTC3198-GR
Q403	405 155 0002	TR MPSA56
Q404	405 143 0007	TR KRC107M-A
or	405 000 3806	TR DTC114YS
Q501	405 143 0007	TR KRC107M-A
or	405 000 3806	TR DTC114YS
Q502	405 143 0007	TR KRC107M-A
or	405 000 3806	TR DTC114YS
Q503	405 151 5209	TR KRA107M
or	405 000 0904	TR DTA114YS
Q504	405 141 3307	TR KTC3198-GR
Q505	405 154 9907	TR KTK117Y
Q506	405 151 5209	TR KRA107M
or	405 000 0904	TR DTA114YS
Q507	405 138 6502	TR KTB1366Y
Q508	405 141 3307	TR KTC3198-GR
Q509	405 141 3307	TR KTC3198-GR
Q510	405 143 0007	TR KRC107M-A
or	405 000 3806	TR DTC114YS
R201	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R202	401 038 0800	MT-GLAZE 22K JA 1/10W
R203	401 038 0800	MT-GLAZE 22K JA 1/10W
R204	401 038 0800	MT-GLAZE 22K JA 1/10W
R205	401 037 5608	MT-GLAZE 10K JA 1/10W
R206	401 037 5608	MT-GLAZE 10K JA 1/10W
R207	401 037 5608	MT-GLAZE 10K JA 1/10W
R208	401 037 5608	MT-GLAZE 10K JA 1/10W
R209	401 038 2200	MT-GLAZE 27K JA 1/10W
R210	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R211	401 038 2200	MT-GLAZE 27K JA 1/10W
R212	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R213	401 038 5300	MT-GLAZE 39K JA 1/10W
R215	401 038 5300	MT-GLAZE 39K JA 1/10W
R216	401 037 6704	MT-GLAZE 1.2K JA 1/10W
R217	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R218	401 038 6307	MT-GLAZE 470 JA 1/10W
R219	401 037 5608	MT-GLAZE 10K JA 1/10W
R220	401 038 6307	MT-GLAZE 470 JA 1/10W
R221	401 037 5608	MT-GLAZE 10K JA 1/10W
R222	401 038 0800	MT-GLAZE 22K JA 1/10W
R226	401 038 6307	MT-GLAZE 470 JA 1/10W
R227	401 038 0800	MT-GLAZE 22K JA 1/10W
R228	401 038 0800	MT-GLAZE 22K JA 1/10W
R229	401 038 0800	MT-GLAZE 22K JA 1/10W
R230	401 038 0800	MT-GLAZE 22K JA 1/10W
R231	401 038 0800	MT-GLAZE 22K JA 1/10W
R232	401 038 0800	MT-GLAZE 22K JA 1/10W
R233	401 038 6505	MT-GLAZE 47K JA 1/10W
R234	401 037 5608	MT-GLAZE 10K JA 1/10W
R235	401 037 6704	MT-GLAZE 1.2K JA 1/10W
R236	401 037 5608	MT-GLAZE 10K JA 1/10W
R401	401 094 1902	MT-GLAZE 10M JA 1/10W
R402	401 038 0800	MT-GLAZE 22K JA 1/10W
R403	401 037 6902	MT-GLAZE 120K JA 1/10W
R404	401 038 6307	MT-GLAZE 470 JA 1/10W
R405	401 038 3405	MT-GLAZE 33 JA 1/10W
R406	401 038 0800	MT-GLAZE 22K JA 1/10W
R407	401 038 0800	MT-GLAZE 22K JA 1/10W
R408	401 038 3405	MT-GLAZE 33 JA 1/10W
R409	401 038 6307	MT-GLAZE 470 JA 1/10W
R410	401 037 6902	MT-GLAZE 120K JA 1/10W
R411	401 038 0800	MT-GLAZE 22K JA 1/10W
R412	401 038 0800	MT-GLAZE 22K JA 1/10W
R413	401 038 0800	MT-GLAZE 22K JA 1/10W
R414	401 038 0800	MT-GLAZE 22K JA 1/10W
R415	401 038 0800	MT-GLAZE 22K JA 1/10W

PARTS LIST

REF.NO.	PART NO.	DESCRIPTION
R416	401 037 5400	MT-GLAZE 1K JA 1/10W
R417	401 038 0800	MT-GLAZE 22K JA 1/10W
R418	401 038 5300	MT-GLAZE 39K JA 1/10W
R419	401 038 9308	MT-GLAZE 68K JA 1/10W
R420	401 038 5300	MT-GLAZE 39K JA 1/10W
R421	401 038 7809	MT-GLAZE 56K JA 1/10W
R423	401 037 8005	MT-GLAZE 15K JA 1/10W
R424	401 037 5608	MT-GLAZE 10K JA 1/10W
R425	401 037 5608	MT-GLAZE 10K JA 1/10W
R426	401 037 5608	MT-GLAZE 10K JA 1/10W
R427	401 038 6505	MT-GLAZE 47K JA 1/10W
R428	401 038 7601	MT-GLAZE 560 JA 1/10W
R501	401 038 5300	MT-GLAZE 39K JA 1/10W
R502	401 037 5608	MT-GLAZE 10K JA 1/10W
R503	401 037 5400	MT-GLAZE 1K JA 1/10W
R504	401 037 8005	MT-GLAZE 15K JA 1/10W
R505	401 037 5608	MT-GLAZE 10K JA 1/10W
R506	401 037 8005	MT-GLAZE 15K JA 1/10W
R507	401 038 0602	MT-GLAZE 220 JA 1/10W
R509	401 037 8005	MT-GLAZE 15K JA 1/10W
R510	401 038 7601	MT-GLAZE 560 JA 1/10W
R511	401 038 7601	MT-GLAZE 560 JA 1/10W
R512	401 037 5806	MT-GLAZE 1M JA 1/10W
R513	401 038 6505	MT-GLAZE 47K JA 1/10W
R514	401 038 7601	MT-GLAZE 560 JA 1/10W
R518	401 037 8005	MT-GLAZE 15K JA 1/10W
R519	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R520	401 037 5202	MT-GLAZE 100 JA 1/10W
R521	401 038 0602	MT-GLAZE 220 JA 1/10W
R522	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R523	401 037 5400	MT-GLAZE 1K JA 1/10W
R528	401 037 5608	MT-GLAZE 10K JA 1/10W
R529	401 038 6307	MT-GLAZE 470 JA 1/10W
R530	401 037 6605	MT-GLAZE 120 JA 1/10W
S401	645 036 3924	SWITCH,LEAF,R/P SW
SA001	411 021 6405	SCR S-TPG BIN 3X8,HEAT SINK IC401
SA002	411 021 6405	SCR S-TPG BIN 3X8,HEAT SINK Q507
SA003	411 021 6405	SCR S-TPG BIN 3X8,TUNER ASSY
SA004	411 021 6405	SCR S-TPG BIN 3X8,TUNER ASSY
SHANT	614 302 9977	SHIELD,ANTENA
TU001	645 036 3733	TUNER PWB,AM/FM

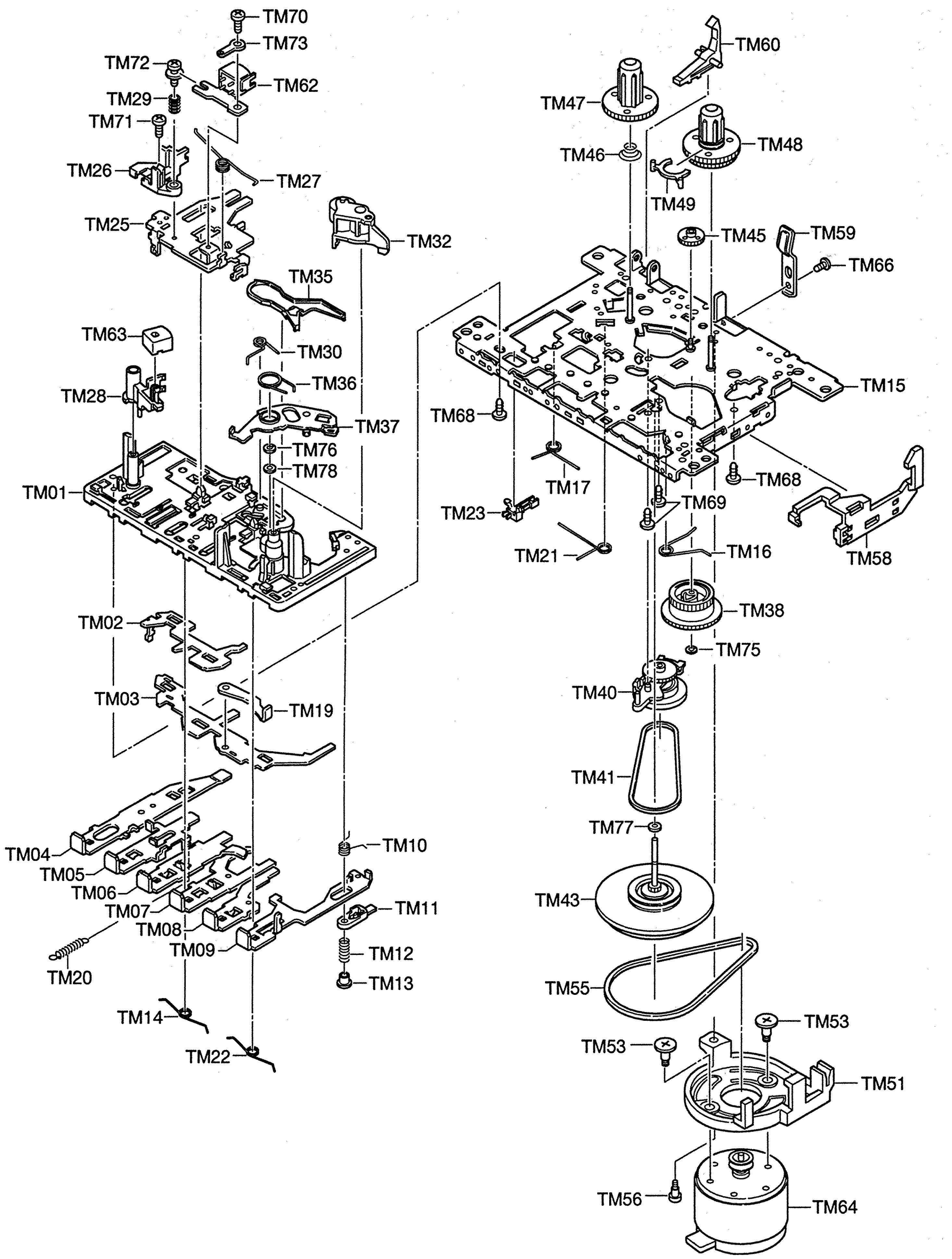
AC TERMINAL P.W.BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION
76	⚠ 614 303 3028	ASSY,PWB,AC TERMINAL (Only Initial)
T901	614 017 8203	TERMINAL BOARD
T902	614 017 8203	TERMINAL BOARD

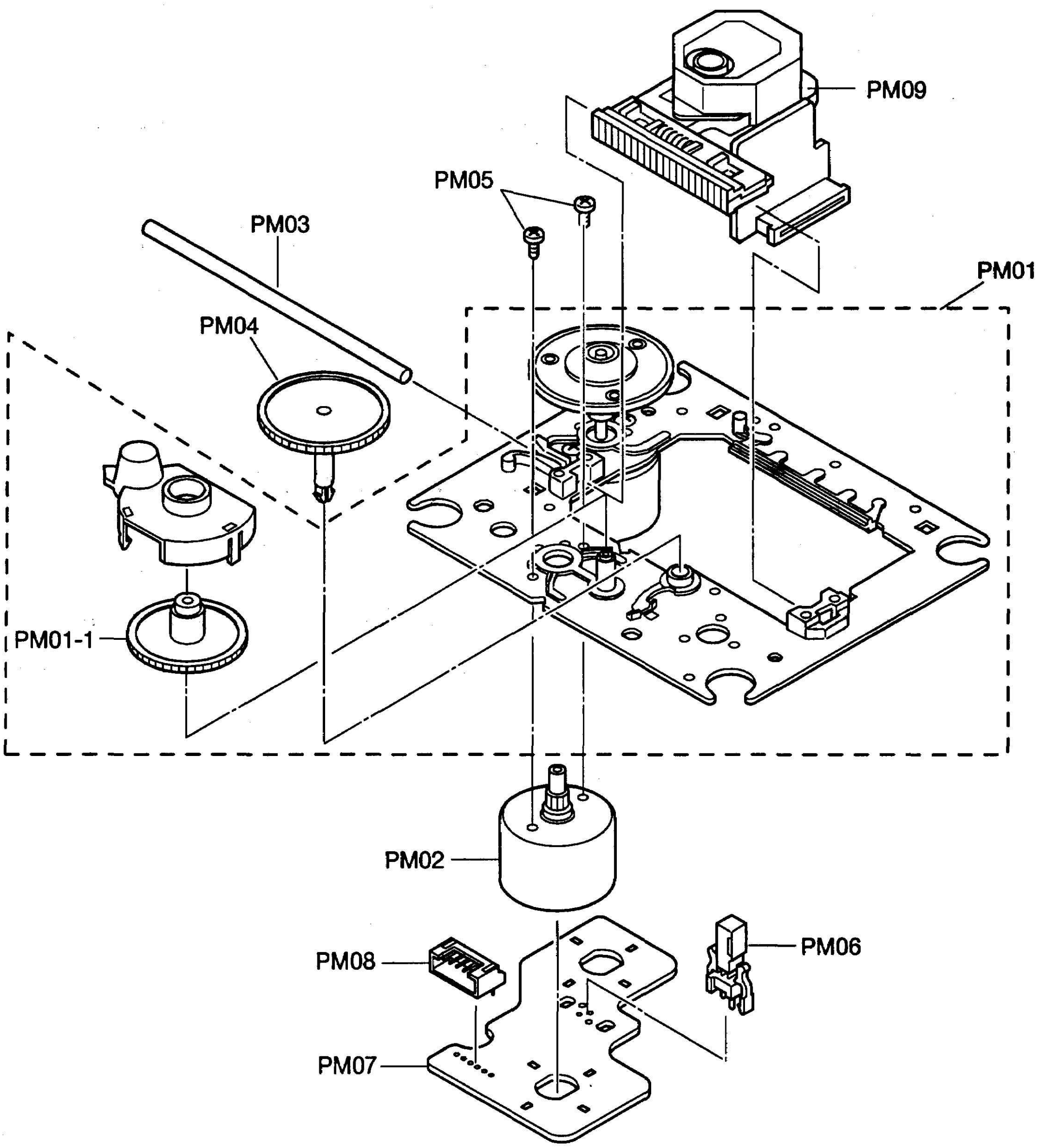
TAPE MECHANISM (TM-DA100TN-SH . . . Only Initial)

REF.NO.	PART NO.	DESCRIPTION
TM01	645 032 9869	ASSY,BASE
TM02	645 009 1285	SWITCH ACTUATOR
TM03	645 009 1278	PUSH BUTTON ACTUATOR
TM04	645 011 0757	REC BUTTON LEVER
TM05	645 011 0764	PLAY BUTTON LEVER
TM06	645 011 0771	REW BUTTON LEVER
TM07	645 011 0788	FF BUTTON LEVER
TM08	645 011 0795	STOP BUTTON LEVER
TM09	645 023 8147	PAUSE BUTTON LEVER
TM10	645 009 1407	P CONTROL SPRING
TM11	645 011 1211	PAUSE LEVER(E)
TM12	645 009 1391	PAUSE LEVER SPRING
TM13	645 009 1384	PAUSE STOPPER
TM14	645 032 9845	BUTTON LEVER SPRING(A)
TM15	645 009 1346	CHASSIS ASSY
TM16	645 009 1438	E ACTUATOR SPRING
TM17	645 009 1445	PS LEVER SPRING
TM19	645 009 1339	E KICK LEVER
TM20	645 009 3210	PLAY BUTTON LEVER SPRING
TM21	645 009 1476	REC BUTTON LEVER SPRING
TM22	645 009 1421	BUTTON LEVER SPRING(B)
TM23	645 010 9553	LEAF SW MSW-1541T
TM25	645 009 1377	HEAD PANEL
TM26	645 009 1353	HEAD BASE
TM27	645 009 1360	PANEL P SPRING
TM28	645 009 1711	MG ARM
TM29	645 009 1551	AZIMUTH SPRING
TM30	645 009 1452	M CONTROL SPRING
TM32	645 009 1612	PINCH ROLLER ARM ASSY
TM35	645 009 1506	SENSING LEVER
TM36	645 009 1513	GEAR PLATE SPRING
TM37	645 025 4567	ASSY,GEAR PLATE
TM38	645 009 1490	CAM GEAR
TM40	645 032 9791	ASSY,RF CLUTCH
TM41	645 009 1766	RF BELT
TM43	645 032 9807	ASSY,FLYWHEEL
TM45	645 009 1568	FF GEAR
TM46	645 025 4598	BACK TENSION SPRING
TM47	645 023 8116	S REEL HUB
TM48	645 009 1759	TAKE UP REEL ASSY
TM49	645 009 1629	SENSOR
TM51	645 021 5001	MOTOR BRACKET
TM53	645 011 3727	MOTOR COLLER SCREW
TM55	645 033 3415	MAIN BELT
TM56	645 011 3734	MOTOR BRACKET SCREW
TM58	645 010 9423	E SLIDE LEVER
TM59	645 022 1729	PACK SPRING PLATE
TM60	645 009 1674	RECORD SAFETY LEVER
TM62	645 033 8618	R.P HEAD AP-4211F
TM63	645 033 8625	E HEAD 6PA
TM64	614 304 1467	ASSY,MOTOR
TM66	645 009 2305	C TAP SCREW M2X3
TM68	645 009 2244	P TAP BIND SCREW M2X5
TM69	645 009 2268	TAP CAMERA SCREW M2X4.5
TM70	645 009 2237	BIND SCREW M2X3
TM71	645 009 2299	SCREW M2X6
TM72	645 009 2282	AZIMUTH SCREW M2X7
TM73	645 017 9297	LUG PLATE
TM75	614 294 7433	P WASHER CUT 1.2X3.8X0.3
TM76	645 013 5385	P WASHER CUT
TM77	645 009 2350	HL WASHER 2.0X3.5X0.4
TM78	645 009 2343	P WASHER CUT 2.1X4.0X0.13

EXPLODED VIEW (TAPE MECHANISM)



EXPLODED VIEW (CD MECHANISM)



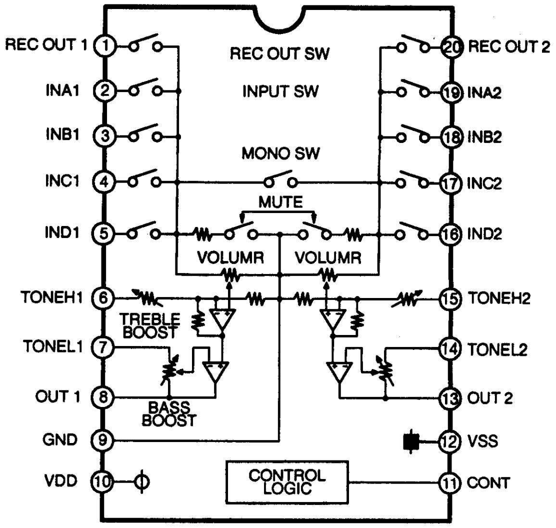
PARTS LIST

CD MECHANISM (CD213CDM/SNSH . . . Only Initial)

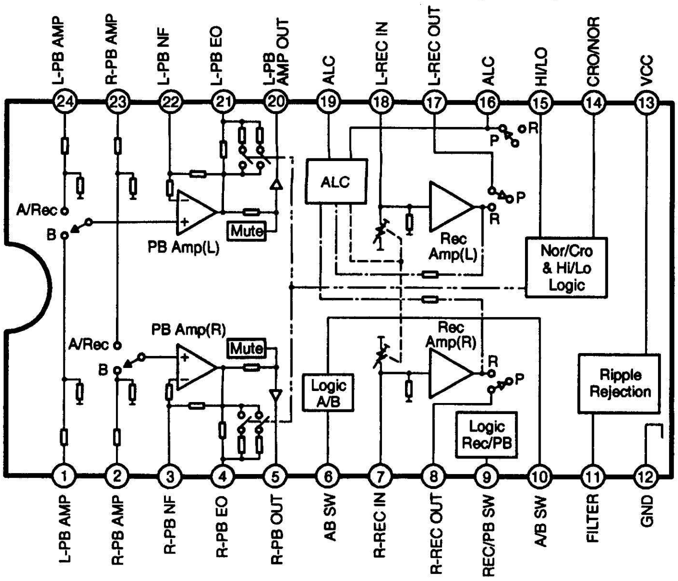
REF.NO.	PART NO.	DESCRIPTION
PM01	614 304 5571	ASSY,MOTOR CHASSIS,BASE
PM01-1	645 033 6812	GEAR B RP,SLED
PM02	645 033 6744	ASSY,MOTOR GEAR,SLED
PM03	645 033 6805	SLED SHAFT,PICK RAIL
PM04	645 033 6799	GEAR A S,PICK DRIVE
PM05	645 033 6829	SCREW+P2*3,SLED MOTOR FIX
PM06	645 033 6775	LEAF SWITCH,LIMIT
PM07	645 033 6782	MOTOR 6P S PWB
PM08	645 033 6768	CONNECTOR PIN 6P
PM09	614 303 5626	PICK UP

IC BLOCK DIAGRAM & DESCRIPTION

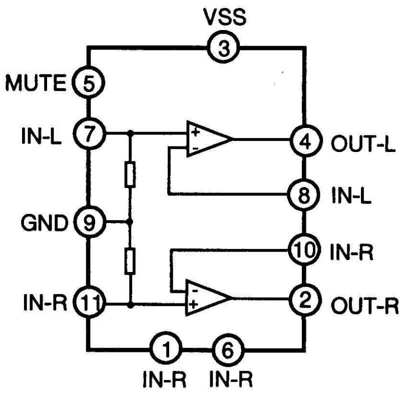
IC201 M62439SP (Sound Control)


REC OUT 1
INA1
INB1
INC1
IND1
TONEH1
TONEL1
OUT 1
GND
VDD
REC OUT SW
INPUT SW
MONO SW
MUTE
VOLUMR
VOLUMR
TREBLE BOOST
BASS BOOST
CONTROL LOGIC
REC OUT 2
INA2
INB2
INC2
IND2
TONEH2
TONEL2
OUT 2
VSS
CONT

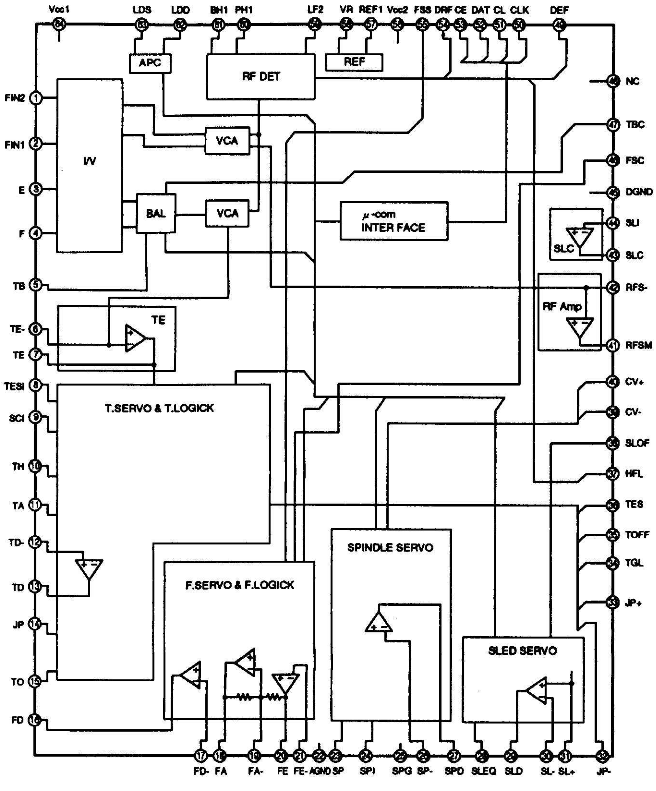
IC401 AN7348K (PLAY / REC Pre Amplifier)


L-PB AMP
R-PB AMP
L-PB NF
L-PB EO
L-PB AMP OUT
ALC
L-REC IN
L-REC OUT
ALC
HI/LO
CRO/NOR
VCC
A/Rec
B
PB Amp(L)
Mute
ALC
Rec Amp(L)
P
R
Nor/Cro & Hi/Lo Logic
A/Rec
B
PB Amp(R)
Mute
Logic A/B
Rec Amp(R)
Logic Rec/PB
Ripple Rejection
L-PB AMP
R-PB AMP
R-PB NF
R-PB EO
R-PB OUT
AB SW
R-REC IN
R-REC OUT
REC/PB SW
A/B SW
FILTER
GND

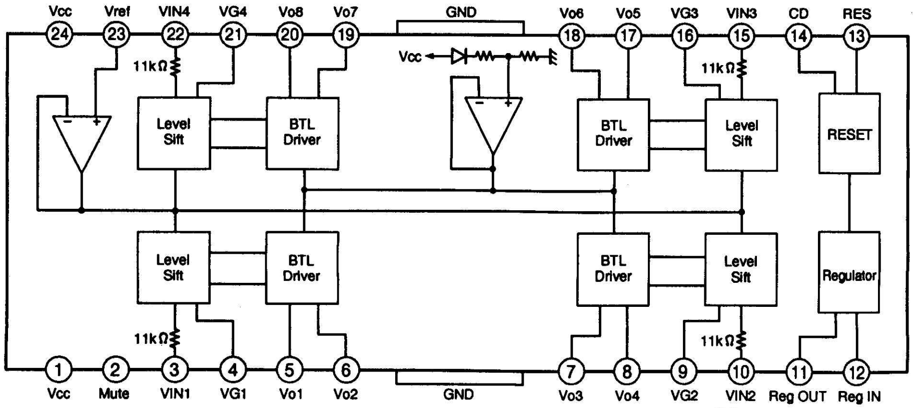
IC501 TDA7269 (Stereo Amplifier)


VSS
MUTE
IN-L
OUT-L
IN-L
GND
IN-R
IN-R
OUT-R
IN-R
IN-R

IC601 LA9240ML (Servo Signal Processor)


Vcc1
LDS
LDD
BH1
PH1
LF2
VR
REF1
Vcc2
FSS
DRF
CE
DAT
CL
CLK
DEF
APC
RF DET
REF
NC
TBC
FSC
DGND
SLI
SLC
RFS-
RFSM
CV+
CV-
SLOF
HFL
TES
TOFF
TGL
JP+
FIN2
FIN1
E
F
TB
TE-
TE
TESI
SCI
TH
TA
TD-
TD
JP
TO
FD
I/V
VCA
BAL
VCA
μ-com INTER FACE
SLC
RF Amp
TE
T.SERVO & T.LOGICK
SPINDLE SERVO
F.SERVO & F.LOGICK
SLED SERVO
FD-
FA
FA-
FE
FE-
AGND
SP
SPI
SPG
SP-
SPD
SLEQ
SLD
SL-
SL+
JP-

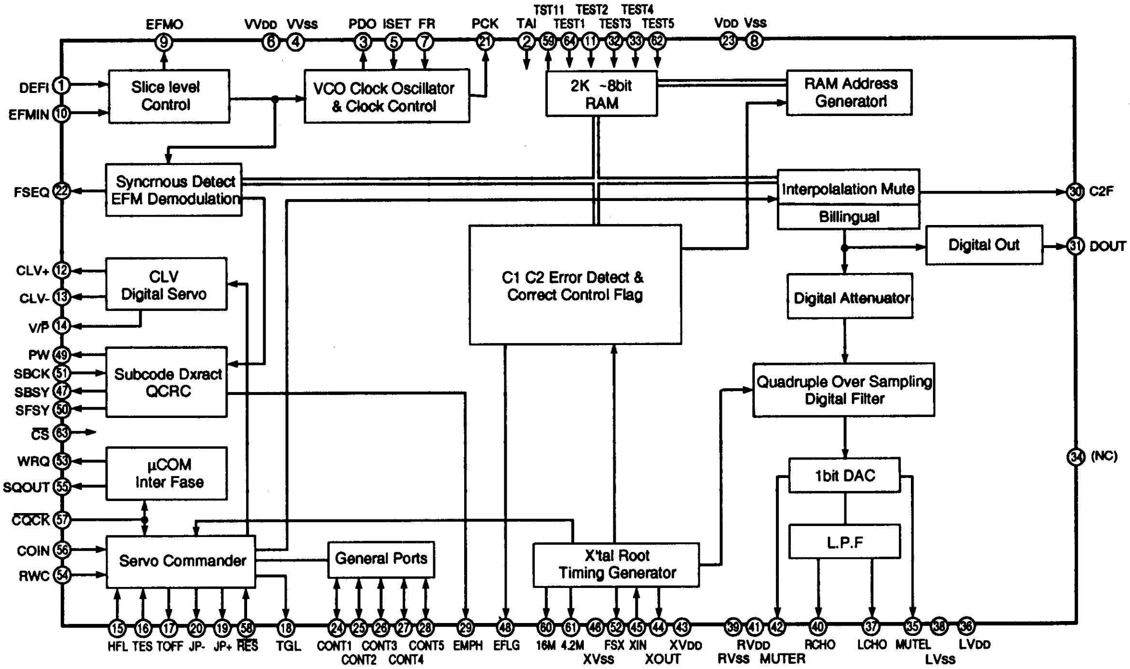
IC603 LA6541 (Pick-up Actuator & Motor Driver)


Vcc
Vref
VIN4
VG4
Vo8
Vo7
GND
Vo6
Vo5
VG3
VIN3
CD
RES
11kΩ
11kΩ
Vcc
Level Sift
BTL Driver
BTL Driver
Level Sift
RESET
Level Sift
BTL Driver
BTL Driver
Level Sift
Regulator
11kΩ
11kΩ
Vcc
Mute
VIN1
VG1
Vo1
Vo2
GND
Vo3
Vo4
VG2
VIN2
Reg OUT
Reg IN

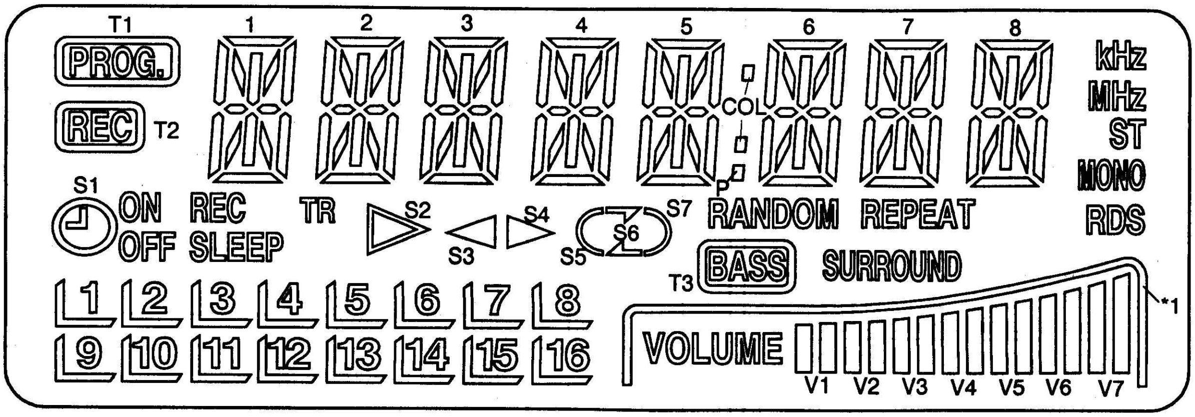
IC BLOCK DIAGRAM & DESCRIPTION

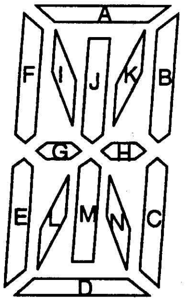
IC602 LC78622E (Digital Signal Processor)

No.	Pin Name	I/O	Function
1	DEFI	I	Input terminal for detect signal of defect
2	TAI	I	Input terminal for test.
3	PDO	O	The phase comparison output terminal for external VCO control.
4	VVSS	-	Ground terminal for built-in VCO
5	ISET	I	Resistance connection terminal for electric current adjustment of PDO output.
6	VVDD	-	Built-in VCO power supply terminal.
7	FR	I	VCO frequency range adjustment.
8	VSS	-	Ground for Digital
9	EFMO	O	EFM signal output terminal for slice level control.
10	EFMIN	I	EFM signal input terminal for slice level control.
11	TEST2	I	TEST pin. Normal time is non connection.
12	CLV+	O	Output terminal for Disc motor control.
13	CLV-	O	Output terminal for Disc motor control.
14	V/P	O	Change of rough servo / phase control Rough servo : "H", Phase control : "L"
15	HFL	I	Input terminal of track search signal.
16	TES	I	Input terminal of tracking error signal.
17	TOFF	O	Output terminal of tracking off.
18	TGL	O	Output terminal for change of tracking gain.
19	JP+	O	Output terminal for tracking jump control.
20	JP-	O	Output terminal for tracking jump control.
21	PCK	O	Clock monitor output terminal for EFM data playback. (4.3218 MHz)
22	FSEQ	O	Output terminal for detect of SYNC signal.
23	DVDD	-	+5V
24	CONT1	I/O	This output can control at serial control from micro processor.
25	CONT2	I/O	
26	CONT3	I/O	
27	CONT4	I/O	
28	CONT5	I/O	
29	EMPH	O	Output terminal of de-emphasis monitor . "H" : de-emphasis
30	C2F	O	Output terminal of C2 flag
31	DOUT	O	Output terminal of digital out
32	TEST3	I	Test pin.
33	TEST4	I	Test pin.
34	NC	-	Non connection.
35	MUTEL	O	Mute output terminal for L-ch
36	LVDD	-	Power supply for L-ch
37	LCHO	O	Output terminal for L-ch
38	LVSS	-	GND for L-ch
39	RVSS	-	GND for R-ch
40	RCHO	O	Output terminal for R-ch
41	RVDD	-	Power supply for R-ch
42	MUTER	O	Mute output terminal for R-ch
43	XVDD	-	Power supply of crystal oscillation
44	XOUT	O	Connection terminal of crystal oscillation (16.9344MHz)
45	XIN	I	Connection terminal of crystal oscillation (16.9344MHz)
46	XVSS	-	GND of crystal oscillation
47	SBSY	O	Output terminal for synchronizing signal of sub-cord block
48	EFLG	O	Output terminal for correction monitor of C1, C2, Single and Double
49	PW	O	Output terminal for sub-cord of P, Q, R, S, T, U and W
50	SFSY	O	Output terminal for synchronizing signal of sub-cord frame
51	SBCK	I	Input terminal for readout clock of sub-cord
52	FSX	O	Output terminal of Synchronizing signal (7.35kHz)
53	WRQ	O	Output terminal for standby of sub-cord Q output
54	RWC	I	Input terminal of read / write control
55	SQOUT	O	Output terminal of sub-cord Q
56	COIN	I	Input terminal of command from micro processor
57	CQCK	I	Clock input for reading sub-cord from SQOUT
58	RES	I	Reset (turn on : L)
59	TST11	O	Test pin
60	16M	O	16.9344MHz
61	4.2M	O	4.2336MHz
62	TEST5	I	Test pin
63	CS	I	Chip select terminal
64	TEST1	I	Test pin


EFMO
VVDD VVss
PDO ISET FR
PCK
TAI
TST11 TEST2 TEST4
TEST1 TEST3 TEST5
VDD Vss
9
6 4
3 5 7
21
2 59 64 11 32 33 62
23 8
DEFI 1
EFMIN 10
Slice level Control
VCO Clock Oscillator & Clock Control
2K ~8bit RAM
RAM Address Generatorl
FSEQ 22
Syncrnous Detect EFM Demodulation
Interpolalation Mute
Billingual
30 C2F
Digital Out
31 DOUT
C1 C2 Error Detect & Correct Control Flag
Digital Attenuator
CLV+ 12
CLV- 13
CLV Digital Servo
V/P 14
PW 49
SBCK 51
SBSY 47
SFSY 50
Subcode Dxract QCRC
Quadruple Over Sampling Digital Filter
CS 63
WRQ 53
SQOUT 55
µCOM Inter Fase
34 (NC)
1bit DAC
L.P.F
CQCK 57
COIN 56
RWC 54
Servo Commander
General Ports
X'tal Root Timing Generator
15 16 17 20 19 58 18 24 25 26 27 28 29 48 60 61 46 52 45 44 43 39 41 42 40 37 35 38 36
HFL TES TOFF JP- JP+ RES TGL CONT1 CONT3 CONT5 EMPH EFLG 16M 4.2M FSX XIN XVDD RVDD RCHO LCHO MUTEL LVDD
CONT2 CONT4 XVss XOUT RVss MUTER LVss

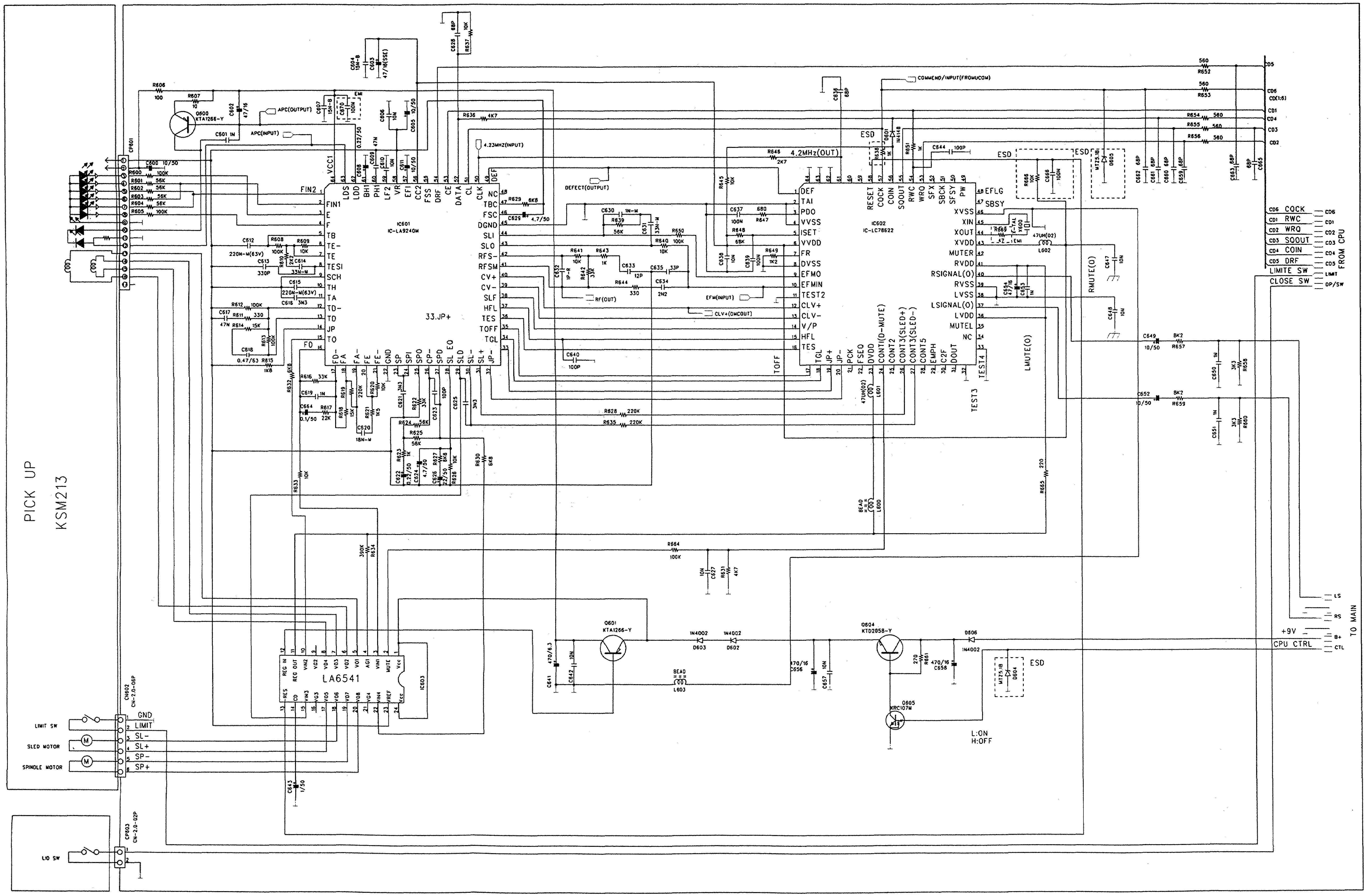
FL DISPLAY DESCRIPTION


T1
PROG.
REC
T2
1
2
3
4
5
6
7
8
COL
P
kHz
MHz
ST
MONO
RDS
S1
ON
OFF
REC
SLEEP
TR
S2
S3
S4
S5
S6
S7
RANDOM
REPEAT
T3
BASS
SURROUND
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
*1
VOLUME
V1
V2
V3
V4
V5
V6
V7


A
F
I
J
K
B
G
H
E
L
M
N
C
D

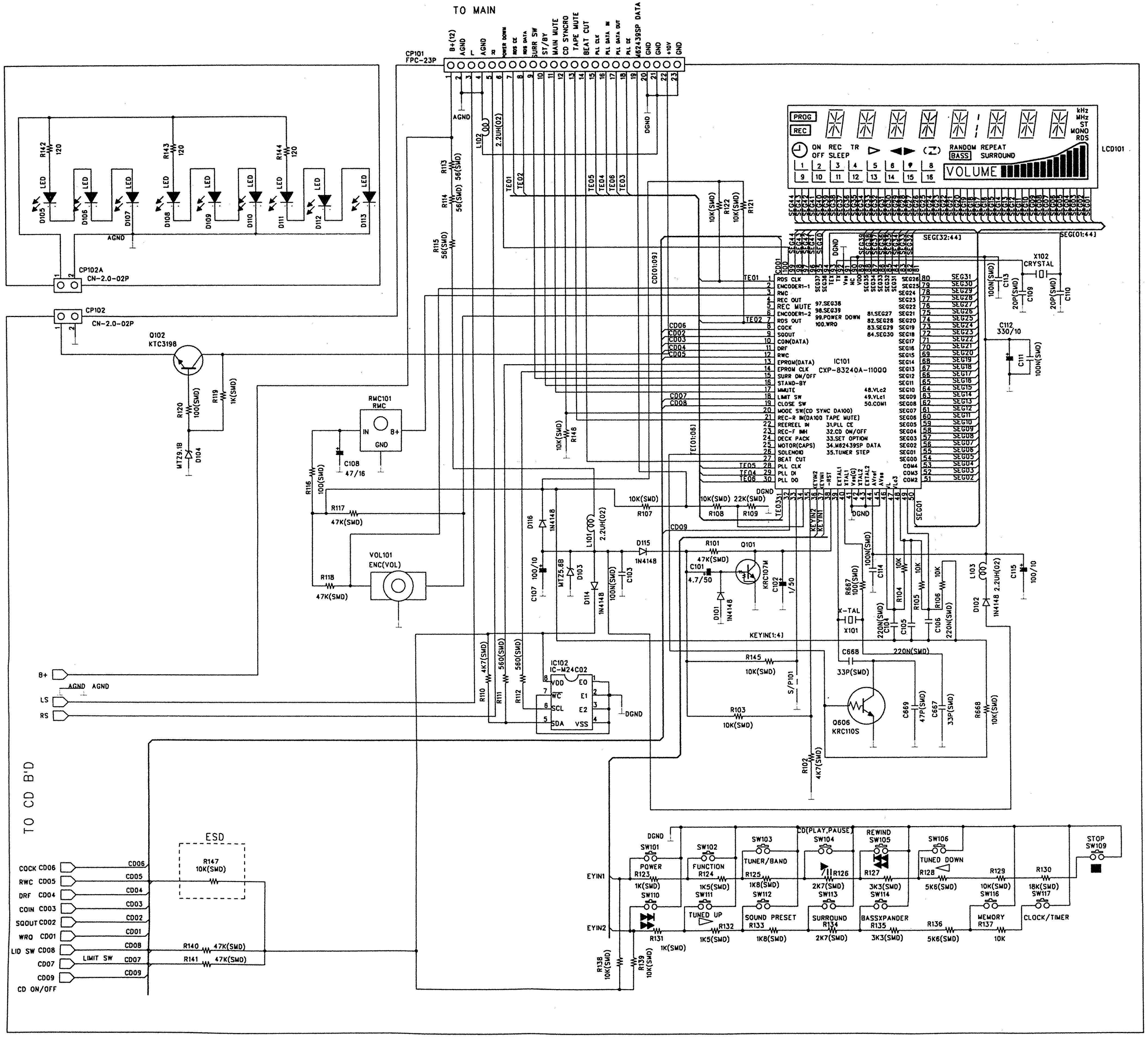
	COM1	COM2	COM3	COM4
1	COM1	-	-	-
2	-	COM2	-	-
3	-	-	COM3	-
4	-	-	-	COM4
5	1F	1G	1E	OFF
6	1A	1I	1M	1L
7	1K	1J	1N	1D
8	1B	1H	1C	REC.
9	2F	2G	2E	SLEEP
10	2A	2I	2M	2L
11	2K	2J	2N	2D
12	2B	2H	2C	S2
13	3F	3G	3E	S3
14	3A	3I	3M	3L
15	3K	3J	3N	3D
16	3B	3H	3C	S4
17	4F	4G	4E	S5
18	4A	4I	4M	4L
19	4K	4J	4N	4D
20	4B	4H	4C	S6
21	5F	5G	5E	S7
22	5A	5I	5M	5L
23	5K	5J	5N	5D
24	5B	5H	5C	COL
25	6F	6G	6E	P
26	6A	6I	6M	6L
27	6K	6J	6N	6D
28	6B	6H	6C	RANDOM
29	7F	7G	7E	SURR.
30	7A	7I	7M	7L
31	7K	7J	7N	7D
32	7B	7H	7C	REPEAT
33	8F	8G	8E	MHz
34	8A	8I	8M	8L
35	8K	8J	8N	8D
36	8B	8H	8C	KHz
37	T1	T2	ON	S1
38	ST	MONO	RDS	T3
39	2	10	1	9
40	4	12	3	11
41	6	14	5	13
42	8	16	7	15
43	*1	V1	V2	V3
44	V4	V5	V6	V7

SCHEMATIC DIAGRAM (CD)


PICK UP
KSM213
CP601
IC601
IC-LA9240M
IC602
IC-LC78622
LA6541
IC603
Q600
KTA1266-Y
Q601
KTA1266-Y
Q604
KTD2058-Y
Q605
KRC107M
D603
D602
1N4002
D606
1N4002
ESD
4.2MHz(OUT)
APC(OUTPUT)
APC(INPUT)
4.23MHZ(INPUT)
DEFECT(OUTPUT)
COMMEND/INPUT(FROMUCOM)
RF(OUT)
EFM(INPUT)
CLV+(OMCOUT)
33.JP+
RMUTE(O)
LMUTE(O)
TEST3
TOFF
X600
L602
L600
L601
L603
BEAD
CN602
CN-2.0-06P
CP603
CN-2.0-02P
GND
LIMIT
SL-
SL+
SP-
SP+
LIMIT SW
SLED MOTOR
SPINDLE MOTOR
LID SW
CQCK
RWC
WRQ
SQOUT
COIN
DRF
LIMITE SW
CLOSE SW
FROM CPU
LS
RS
+9V
B+
CPU CTRL
CTL
TO MAIN
L:ON
H:OFF

This is a basic schematic diagram.

SCHEMATIC DIAGRAM (FRONT)



TO MAIN
CP101
FPC-23P
B+(12)
AGND
L
AGND
R
POWER DOWN
RDS CE
RDS DATA
SURR SW
ST/BY
MAIN MUTE
CD SYNCRO
TAPE MUTE
BEAT CUT
PLL CLK
PLL DATA IN
PLL DATA OUT
PLL CE
M62439SP DATA
GND
GND
+10V
GND
LCD101
PROG
REC
ON
OFF
REC
SLEEP
TR
RANDOM
REPEAT
BASS
SURROUND
VOLUME
kHz
MHz
ST
MONO
RDS
SEG[32:44]
SEG[01:44]
IC101
CXP-83240A-110Q0
X102
CRYSTAL
X101
X-TAL
R142 120
R143 120
R144 120
D105
D106
D107
D108
D109
D110
D111
D112
D113
LED
CP102A
CN-2.0-02P
CP102
CN-2.0-02P
Q102
KTC3198
R119 1K(SMD)
R120 100(SMD)
D104
MTZ9.1B
RMC101
RMC
IN
B+
GND
C108
47/16
R116 100(SMD)
R117 47K(SMD)
R118 47K(SMD)
VOL101
ENC(VOL)
R113 56(SMD)
R114 56(SMD)
R115 56(SMD)
L102 2.2UH(O2)
R146 10K(SMD)
R122 10K(SMD)
R121 10K(SMD)
R107 10K(SMD)
R108 10K(SMD)
R109 22K(SMD)
D116 1N4148
L101 2.2UH(O2)
D115 1N4148
D114 1N4148
D103 MTZ5.6B
C107 100/10
C103
R101 47K(SMD)
C101 4.7/50
Q101 KRC107M
C102 1/50
D101 1N4148
R667 100(SMD)
C114
R104 10K
R105 10K
R106 10K
L103 2.2UH(O2)
C115 100/10
D102 1N4148
C104 220N(SMD)
C105
C106 220N(SMD)
C112 330/10
C111 100N(SMD)
C113 100N(SMD)
C109 20P(SMD)
C110 20P(SMD)
IC102
IC-M24C02
VDD
WC
SCL
SDA
E0
E1
E2
VSS
R110 4K7(SMD)
R111 560(SMD)
R112 560(SMD)
DGND
KEYIN[1:4]
R145 10K(SMD)
S/P101
C668 33P(SMD)
Q606 KRC110S
C669 47P(SMD)
C667 33P(SMD)
R668 10K(SMD)
R103 10K(SMD)
R102 4K7(SMD)
B+
AGND
LS
RS
TO CD B'D
ESD
R147 10K(SMD)
COCK CD06
RWC CD05
DRF CD04
COIN CD03
SQOUT CD02
WRQ CD01
LID SW CD08
CD07
CD09
CD ON/OFF
LIMIT SW
R140 47K(SMD)
R141 47K(SMD)
EYIN1
EYIN2
SW101 POWER
R123 1K(SMD)
SW102 FUNCTION
R124 1K5(SMD)
SW103 TUNER/BAND
R125 1K8(SMD)
SW104 CD(PLAY,PAUSE)
R126 2K7(SMD)
SW105 REWIND
R127 3K3(SMD)
SW106 TUNED DOWN
R128 5K6(SMD)
R129 10K(SMD)
R130 18K(SMD)
SW109 STOP
SW110
R131 1K(SMD)
SW111 TUNED UP
R132 1K5(SMD)
SW112 SOUND PRESET
R133 1K8(SMD)
SW113 SURROUND
R134 2K7(SMD)
SW114 BASSXPANDER
R135 3K3(SMD)
R136 5K6(SMD)
SW116 MEMORY
R137 10K
SW117 CLOCK/TIMER
R138 10K(SMD)
R139 10K(SMD)

REF NO / VERSION	STEP	R102
EUROPE 2BAND	50K 9K	GND
EUROPE 3BAND	50K 9K	4K7
S-SS	100K 9K	10K
UL/CSA	100K 10K	22K
NX/JP		OPEN

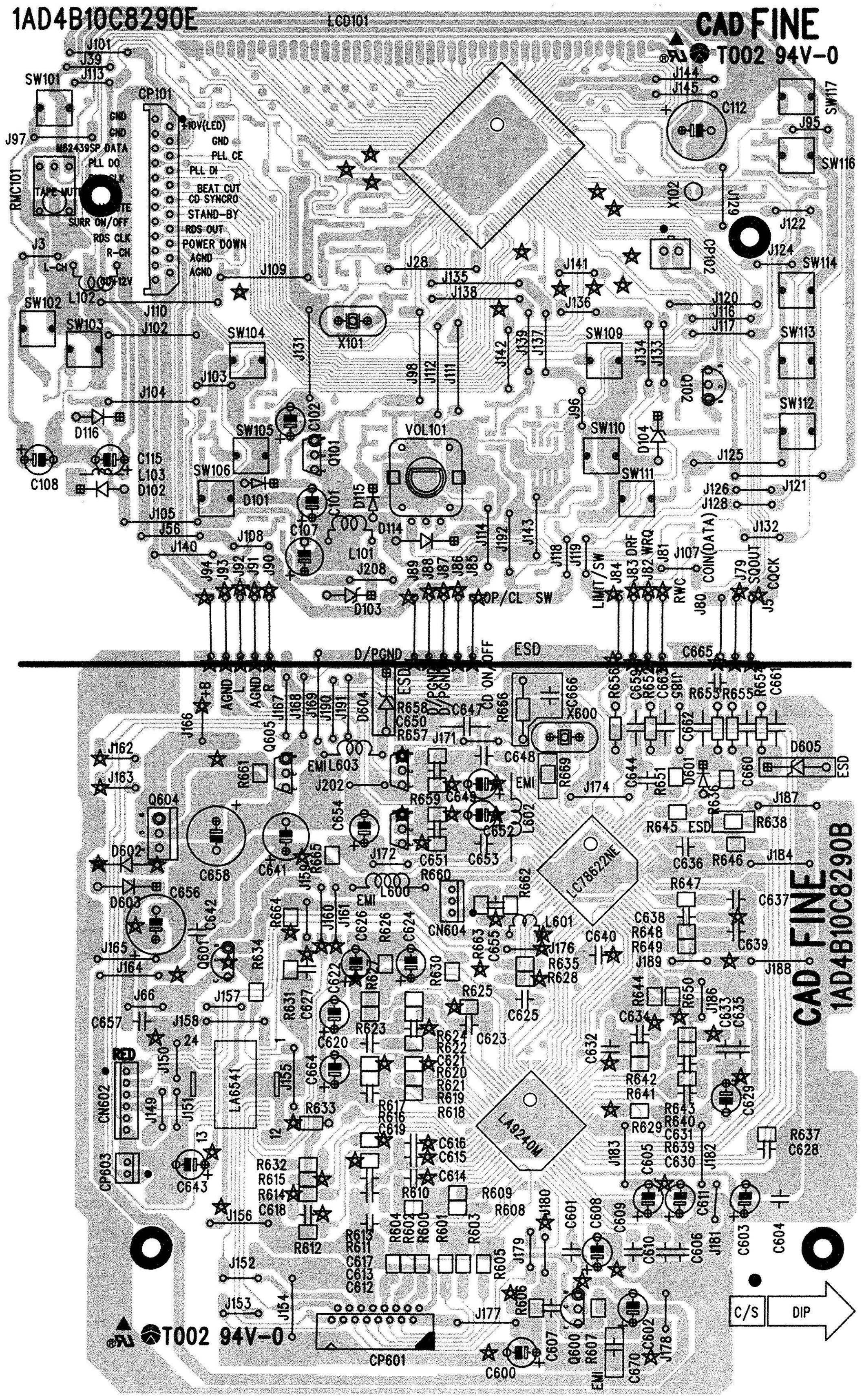
REF NO / SET OPTION	S/P101
VIDEO AUX	GND
VIDEO DVD	4K7

This is a basic schematic diagram.

WIRING DIAGRAM (CD, FRONT, LED)

<TOP VIEW>

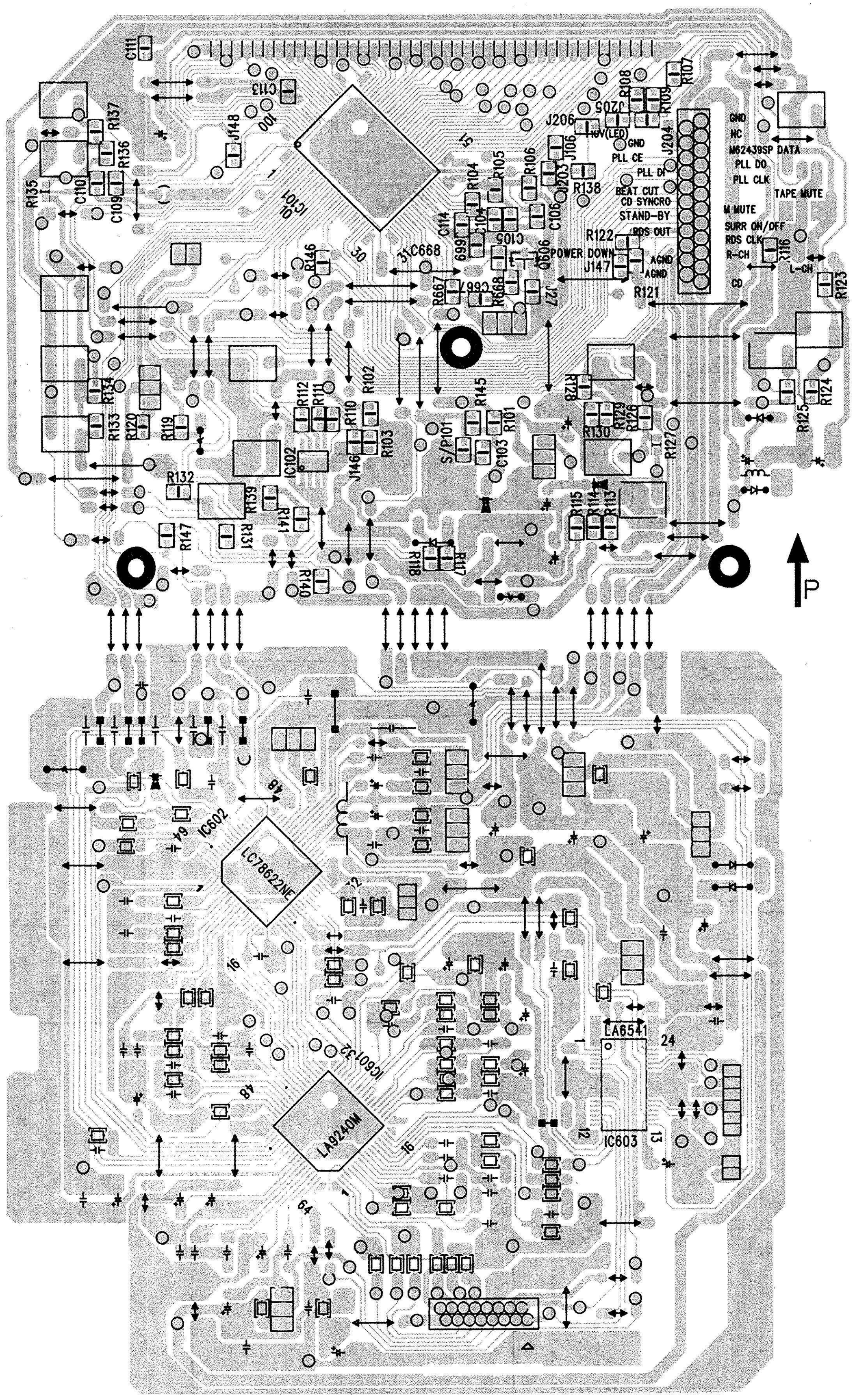
FRONT P.W.B


1AD4B10C8290E
LCD101
CAD FINE
T002 94V-0
CP101
+10V(LED)
GND
PLL CE
PLL DI
PLL DO
PLL CLK
M62439SP DATA
TAPE MUTE
BEAT CUT
CD SYNCRO
STAND-BY
RDS OUT
POWER DOWN
SURR ON/OFF
RDS CLK
R-CH
L-CH
AGND
+12V
SW101
SW102
SW103
SW104
SW105
SW106
SW109
SW110
SW111
SW112
SW113
SW114
SW116
SW117
RMC101
X101
X102
VOL101
IC101
C112
C115
C108
L101
L102
L103
D101
D102
D103
D104
D114
D115
D116
Q101
Q102
CP102
D/PGND
ESD
OP/CL SW
LIMIT/SW
DRF
WRQ
RWC
COIN(DATA)
SQOUT
COCK
+B
AGND
L
R
CD ON/OFF
X600
D604
D605
Q604
D602
D603
Q601
LC78622NE
LA9240M
LA6541
CAD FINE
1AD4B10C8290B
CN602
CN604
CP601
CP603
C/S
DIP
T002 94V-0

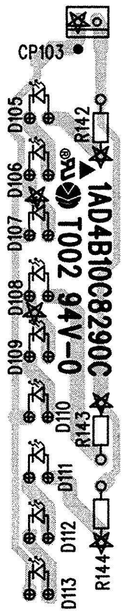
CD P.W.B

<BOTTOM VIEW>

FRONT P.W.B

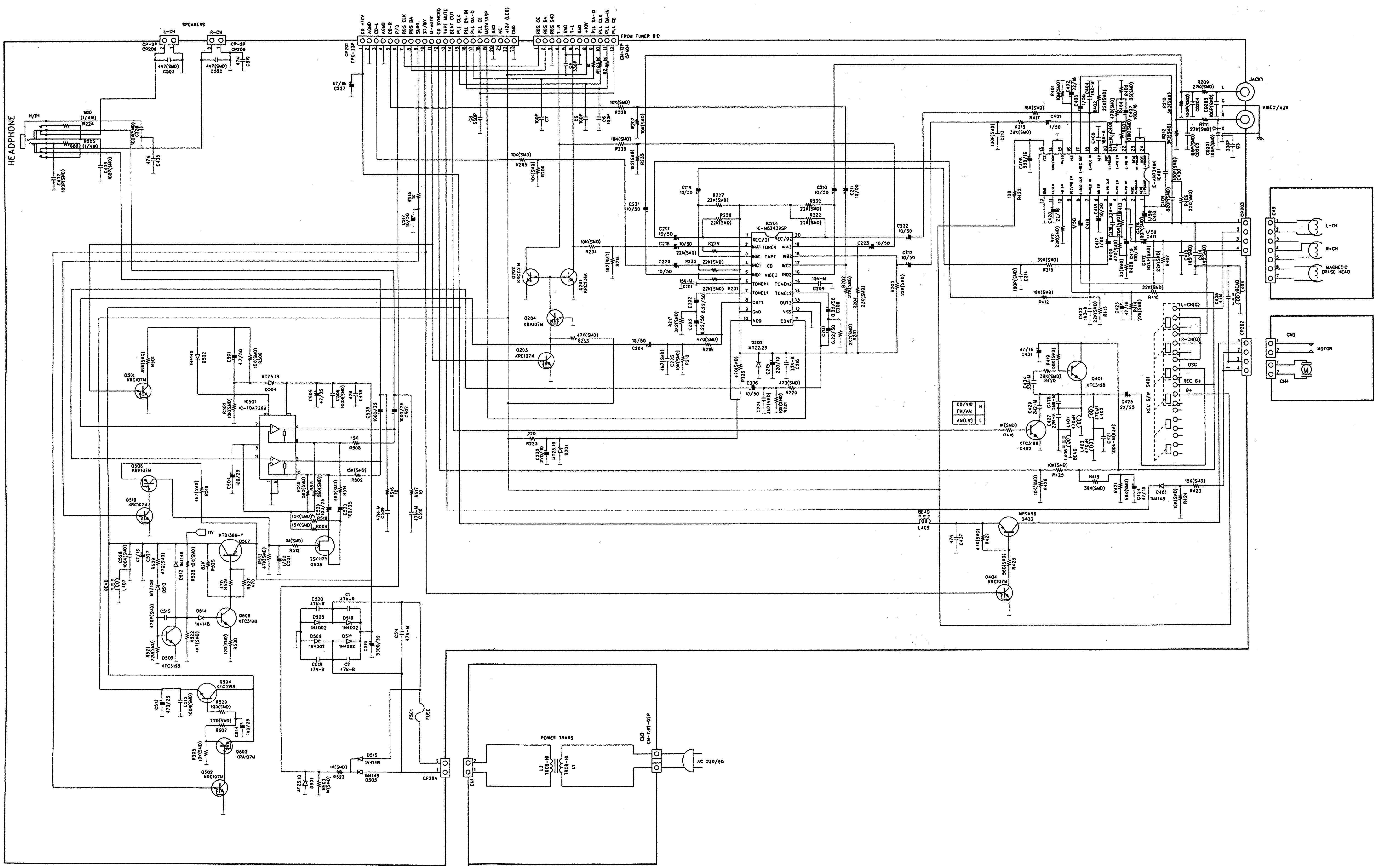

GND
NC
M62439SP DATA
PLL DO
PLL CLK
TAPE MUTE
M MUTE
SURR ON/OFF
RDS CLK
R-CH
L-CH
CD
+10V(LED)
GND
PLL CE
PLL DI
BEAT CUT
CD SYNCRO
STAND-BY
RDS OUT
POWER DOWN
AGND
IC101
IC102
P
IC602
LC78622NE
IC601
LA9240M
LA6541
IC603

CD P.W.B


CP103
D105
D106
D107
D108
D109
D110
D111
D112
D113
R142
R143
R144
1AD4B10C8290C
T002 94V-0

LED P.W.B

SCHEMATIC DIAGRAM (AMPLIFIER)

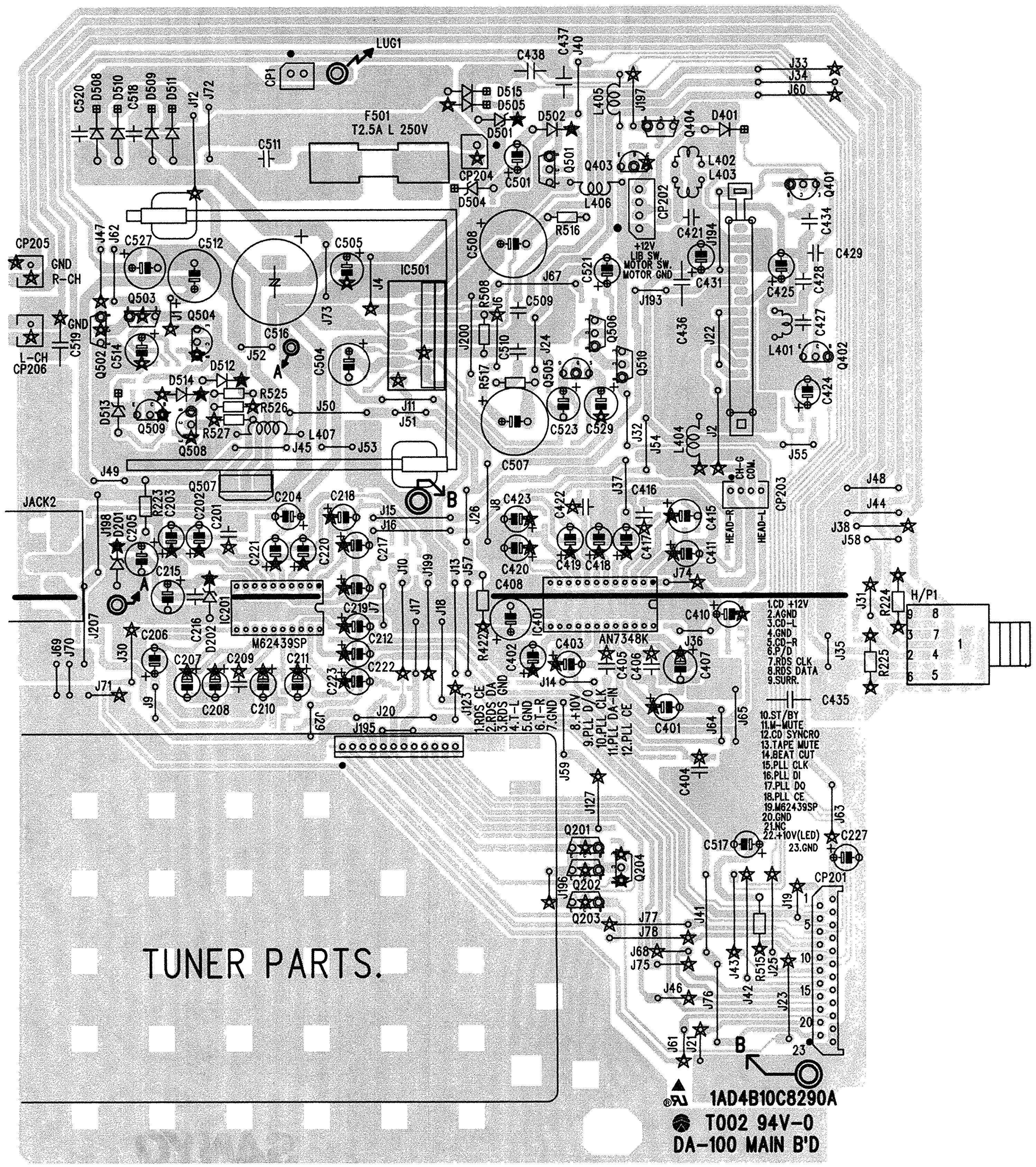

SPEAKERS
L-CH
R-CH
CP-2P CP206
CP-2P CP205
4N7(SMD) C503
4N7(SMD) C502
HEADPHONE
N/P1
R224
R225
CP201 FPC-23P
CD +12V
AGND
CD-L
AGND
CD-R
P/D
RDS CLK
RDS DA
SURR.
ST/BY
M-MUTE
CD SYNCRO
TAPE MUTE
BEAT CUT
PLL CLK
PLL DA-IN
PLL DA-O
PLL CE
M62439SP
GND
NC
+10V (LED)
GND
RDS CE
RDS DA
RDS GND
T-R
GND
T-L
GND
+10V
PLL DA-O
PLL CLK
PLL DA-IN
PLL CE
FROM TUNER B'D
CN-12P CP404
IC201 IC-M62439SP
REC/01
REC/02
MA1 TUNER MA2
MB1 TAPE MB2
MC1 CD MC2
MD1 VIDEO MD2
TONEH1 TONEH2
TONEL1 TONEL2
OUT1 OUT2
GND VSS
VDD CONT
IC501 IC-TDA7269
Q501 KRC107M
Q202 KRC231M
Q201 KRC231M
Q204 KRA107M
Q203 KRC107M
D202 MTZ2.2B
D504 MTZ5.1B
Q506 KRA107M
Q510 KRC107M
KTB1366-Y Q507
2SK117Y Q505
Q508 KTC3198
Q509 KTC3198
Q504 KTC3198
Q503 KRA107M
Q502 KRC107M
D508 1N4002
D509 1N4002
D510 1N4002
D511 1N4002
D515 1N4148
D505 1N4148
F501 FUSE
CP204
CN1
POWER TRANS
L2 TRCB-10
TRCB-10 L1
CN2 CN-7.92-02P
AC 230/50
IC401 IC-AN7348K
JACK1
VIDEO/AUX
CP203
CN5
L-CH
R-CH
MAGNETIC ERASE HEAD
CP202
CN3
MOTOR
CN4
REC S/W S401
L-CH(G)
R-CH(G)
OSC
REC B+
B+
CD/VID H
FM/AM
AM(LW) L
Q401 KTC3198
Q402 KTC3198
Q403 MPSA56
Q404 KRC107M
D401 1N4148
BEAD L405
BEAD L404

This is a basic schematic diagram.

WIRING DIAGRAM (AMPLIFIER)

<TOP VIEW>

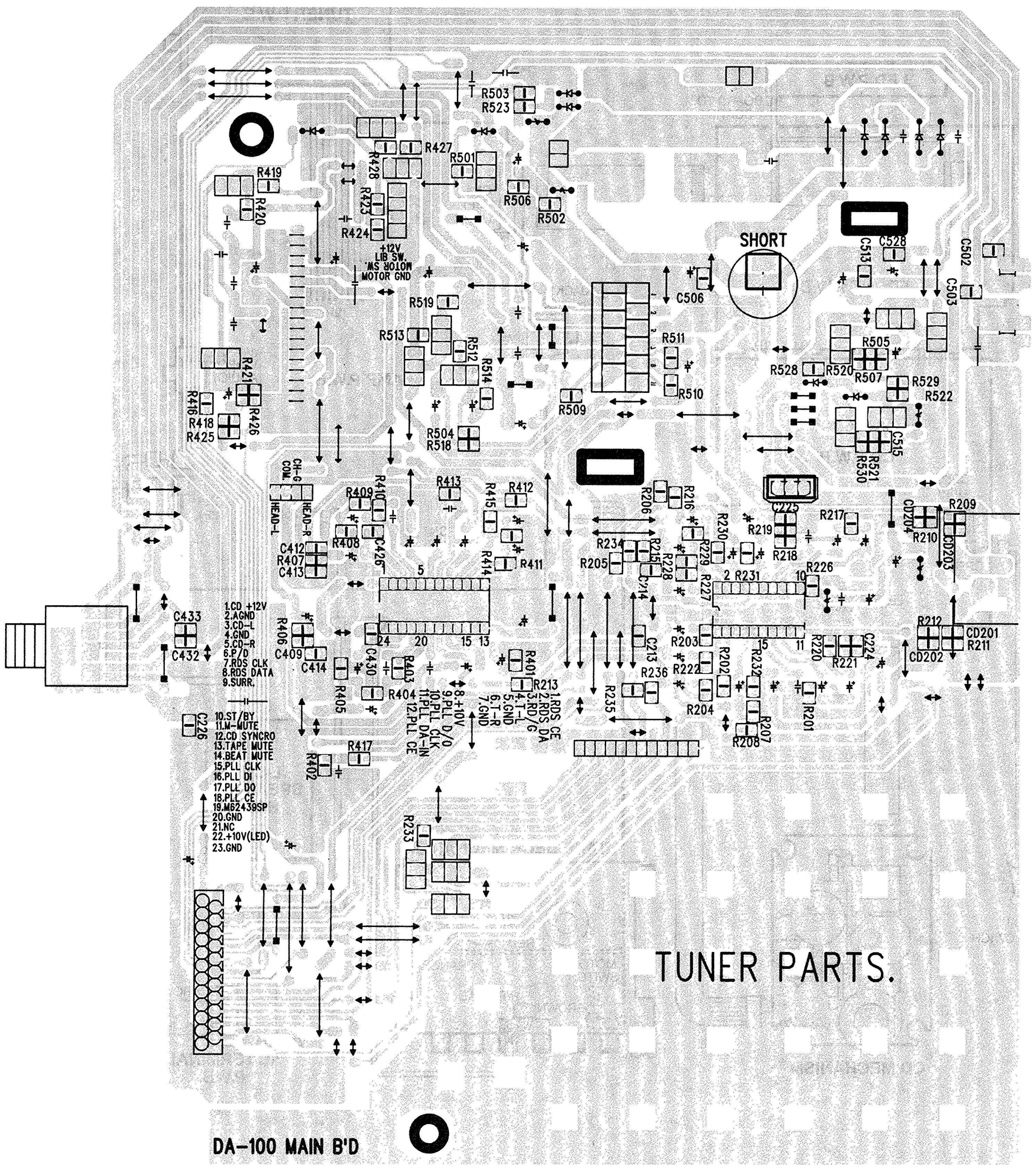
AMPLIFIER P.W.B



LUG1
CP1
F501
T2.5A L 250V
C511
C520 D508 D510 C518 D509 D511 J12 J72
D515 D505 D501 D502 D504 CP204 C501 Q501 Q403 L405 J197 Q404 D401 L402 L403 L406 Q401
C438 C437 J40
J33 J34 J60
CP202 R516 C421 J194 C434 C429 C425 C428 C427 C424 Q402 L401
+12V LIB SW. MOTOR SW. MOTOR GND
C431 J193 C436 J22
CP205 GND R-CH GND L-CH CP206 C519
J47 J62 C527 C512 C505 IC501 J4 J73
Q503 Q504 Q502 C514 J1 C516 J52 A D512 D514 R525 R526 R527 D513 Q509 Q508 L407 J45 J53 J50 J11 J51 C504
C508 J67 C521 R508 J16 C509 J200 C510 J24 R517 Q505 Q506 Q519 C523 C529 J32 J54 L404 J2 C507
CH-G COM. HEAD-R HEAD-L CP203 J55
J49 Q507 B JACK2
J198 D201 C205 R223 C203 C202 C201 C204 C218 J15 J16 J26 J8 C423 C422 J37 C416 C415 C411 C417
J48 J44 J38 J58
C215 D202 C221 C220 C217 J10 J199 J13 J57 C420 C419 C418 C408 J74
IC201 M62439SP C216 C219 C212 C222 C223 J7 J17 J18 R4222 C401 C402 C403 AN7348K C410 J36 C407 C405 C406 J14
J207 C206 C207 C209 C211 C208 C210 J30 J69 J70 J71 J9 J29 J20 J195 J123
J31 R224 R225 J35 H/P1
1.CD +12V
2.AGND
3.CD-L
4.GND
5.CD-R
6.P/D
7.RDS CLK
8.RDS DATA
9.SURR.
C435
10.ST/BY
11.M-MUTE
12.CD SYNCRO
13.TAPE MUTE
14.BEAT CUT
15.PLL CLK
16.PLL DI
17.PLL DO
18.PLL CE
19.M62439SP
20.GND
21.NC
22.+10V(LED)
23.GND
1.RDS CE
2.RDS DA
3.RDS GND
4.T-L
5.GND
6.T-R
7.GND
8.+10V
9.PLL D/O
10.PLL CLK
11.PLL DA-IN
12.PLL CE
C401 J64 J65 C404 J59 J127 J63
Q201 Q202 Q203 Q204 J196 C517 C227 CP201
J77 J78 J41 J68 J75 J43 R515 J25 J19 J46 J76 J42 J23 J61 J21 B
1 5 10 15 20 23
TUNER PARTS.
1AD4B10C8290A
T002 94V-0
DA-100 MAIN B'D

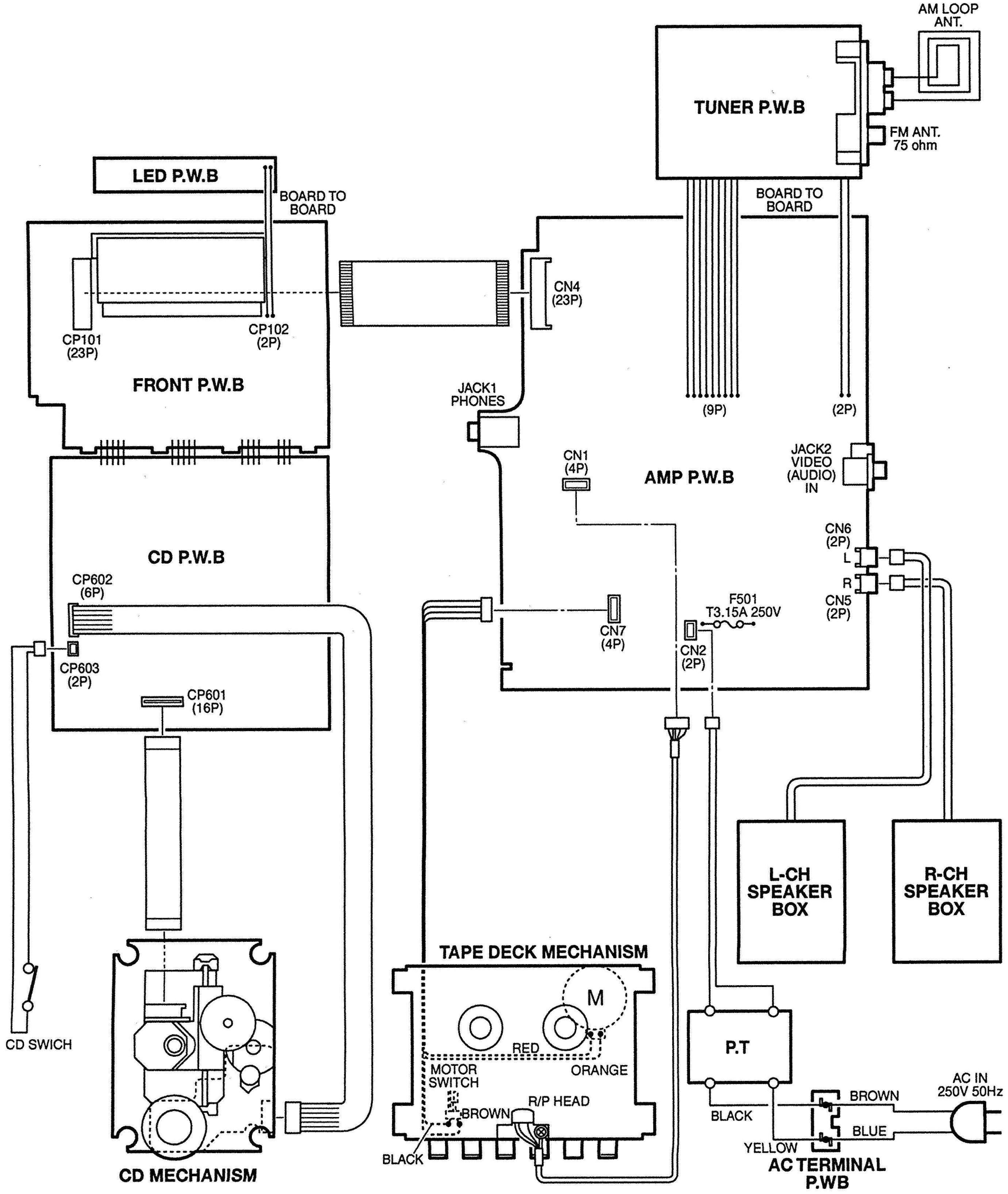
<BOTTOM VIEW>

AMPLIFIER P.W.B



R503 R523 R427 R501 R506 R502 R428 R423 R424 R419 R420
+12V LIB SW. MOTOR SW. MOTOR GND
SHORT
C513 C528 C502 C503 C506
R519 R513 R512 R514 R511 R510 R509 R505 R528 R520 R507 R529 R522 R521 R530 C515
R421 R416 R426 R418 R425 R504 R518
CH-G COM. HEAD-L HEAD-R
R409 R410 R413 R415 R412 R411 R414 R408 R407 C412 C413 C426
R206 R216 R230 R219 R217 R209 C225 R218 R210 CD204 CD203
R234 R205 R215 R229 R228 R227 C214 R231 R226
1.CD +12V
2.AGND
3.CD-L
4.GND
5.CD-R
6.P/D
7.RDS CLK
8.RDS DATA
9.SURR.
10.ST/BY
11.M-MUTE
12.CD SYNCRO
13.TAPE MUTE
14.BEAT CUT
15.PLL CLK
16.PLL DI
17.PLL DO
18.PLL CE
19.M62439SP
20.GND
21.NC
22.+10V(LED)
23.GND
C433 C432 R406 C409 C414 C430 R405 R403 R404 R401 R213 R235 R236 C213 R203 R222 R202 R232 R220 R221 C224 R212 CD201 CD202 R211 R204 R207 R208 R201
1.RDS CE
2.RDS DA
3.RD/G
4.T-L
5.GND
6.T-R
7.GND
8.+10V
9.PLL D/O
10.PLL CLK
11.PLL DA-IN
12.PLL CE
C226 R417 R402 R233
5 24 20 15 13 2 10 15 11
TUNER PARTS.
DA-100 MAIN B'D

WIRING CONNECTION


AM LOOP ANT.
TUNER P.W.B
FM ANT. 75 ohm
LED P.W.B
BOARD TO BOARD
BOARD TO BOARD
CN4 (23P)
CP101 (23P)
CP102 (2P)
FRONT P.W.B
JACK1 PHONES
(9P)
(2P)
CN1 (4P)
AMP P.W.B
JACK2 VIDEO (AUDIO) IN
CN6 (2P)
L
R
CN5 (2P)
CD P.W.B
CP602 (6P)
CP603 (2P)
CP601 (16P)
F501 T3.15A 250V
CN7 (4P)
CN2 (2P)
L-CH SPEAKER BOX
R-CH SPEAKER BOX
TAPE DECK MECHANISM
M
RED
ORANGE
MOTOR SWITCH
R/P HEAD
BROWN
BLACK
CD SWICH
CD MECHANISM
P.T
BLACK
BROWN
AC IN 250V 50Hz
BLUE
YELLOW
AC TERMINAL P.WB

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Osaka, Japan